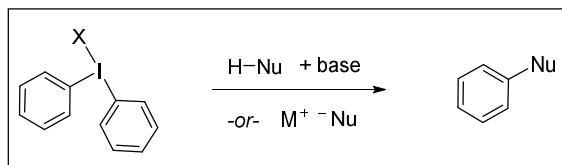
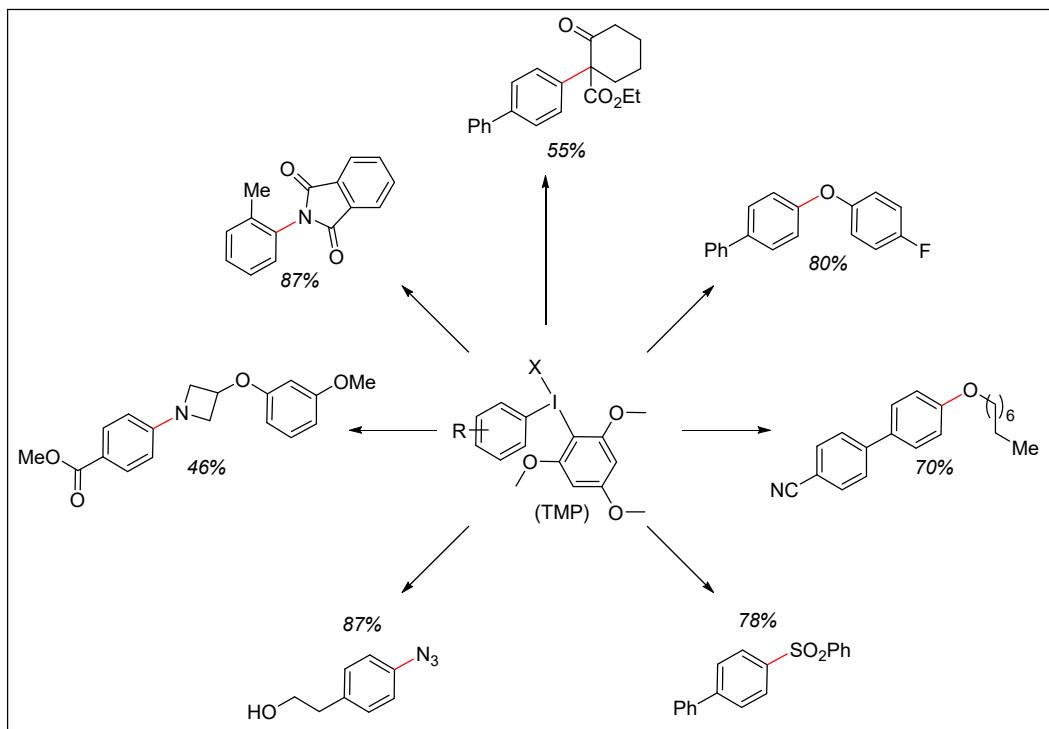


Unsymmetrical Diaryliodonium Salts

Diaryliodonium salts are well-known to transfer an aryl group to carbon and heteroatom nucleophiles, and in some cases, a base is required.^[1] However, transition metal catalysts and supporting ligands are not needed. Moreover, reactions conducted with diaryliodonium salts are operationally simple because they are non-toxic and are not sensitive to air or moisture. Therefore diaryliodonium salts offer an important alternative to metal-catalyzed arylation reactions. Despite these attractive characteristics, a major obstacle to their adoption in chemical synthesis and discovery chemistry has been commercial availability.



In collaboration with the Stuart Group at Portland State University, we now offer > 60 structurally distinct unsymmetrical diaryliodonium salts bearing a 2,4,6-trimethoxyphenyl (TMP) auxiliary that serves as a non-transferable “dummy” group. The aryl groups of the aryl(TMP)iodonium tosylates feature a diverse range of substituents, such as hydrocarbyl, halides, trifluoromethyl, nitro, nitrile, ester, amide, phenyl ether, hydroxyl(methyl), bromo(methyl), and substitution patterns. The use of unsymmetrical aryl(TMP)iodonium salts allows for exclusive aryl transfer selectivity and facilitates purification by easy removal of the iodo-2,4,6-trimethoxyphenyl group. Although method development for metal-free arylation reactions is continually expanding, the Stuart group has already demonstrated that they react with malonate, phenoxide and alkoxide, phenyl sulfinate, and azide, imide, and alicyclic amine nucleophiles.^[2] Others have also demonstrated that aryl(TMP)iodonium salts are useful reagents in radical arylations with visible light photoredox catalysis or under basic conditions, thus diversifying the reactivity profile of these reagents.^[3]



[1] Olofsson, B. Arylation with Diaryliodonium Salts. *Topics in Current Chemistry (in Hypervalent Iodine Chemistry)* 2016, Volume 373, 135-166.

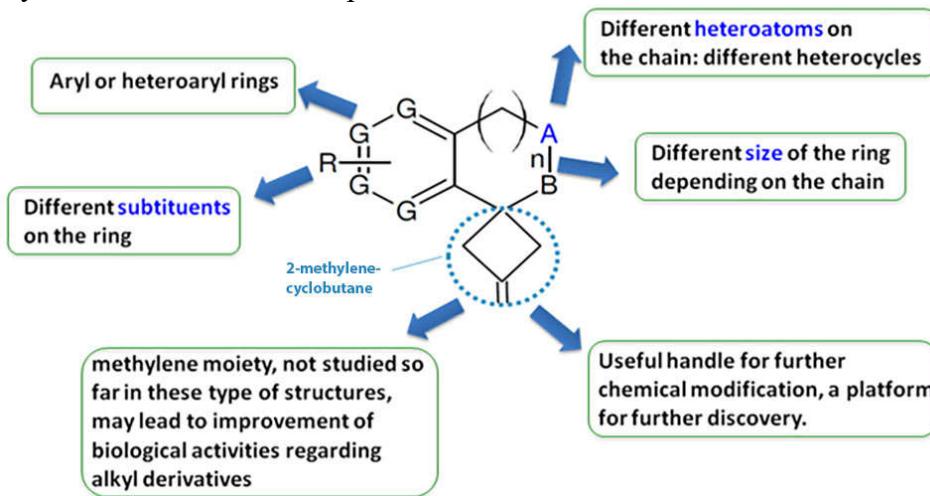
[2] (a) Seidl, T. L.; Sundalam, S. K.; McCullough, B.; Stuart, D. R. Unsymmetrical Aryl(2,4,6-trimethoxyphenyl)iodonium Salts: One-pot Synthesis, Scope, Stability, and Synthetic Studies. *Journal of Organic Chemistry* 2016, Volume 81, 1998 – 2009. (b) Sandtorv, A. H.; Stuart, D. R. Metal-free Synthesis of Aryl Amines: Beyond Nucleophilic Aromatic Substitution. *Angewandte Chemie International Edition* 2016, Volume 55, 15812-15815. (c) Seidl, T. L.; Stuart, D. R. An Admix Approach to Determine Counter Anion Effects on Metal-Free Arylation Reactions with Diaryliodonium Salts. *Journal of Organic Chemistry* 2017, Volume 82, 11765-11771. (d) Basu, S.; Sandtorv, A. H.; Stuart, D. R. Imide Arylation with Aryl(TMP)iodonium Tosylates. *Beilstein Journal of Organic Chemistry* 2018, Volume 14, 1034-1038.

[3] (a) Dohi, T.; Ueda, S.; Hirai, A.; Kojima, Y.; Morimoto, K.; Kita, Y. Selective Aryl Radical Transfers into Heteroaromatics from Diaryliodonium Salts with Trimethoxybenzene Auxiliary. *Heterocycles* 2017, Volume 95, 1272-1284. (b) Sun, D.; Yin, K.; Zhang, R. Visible-Light-Induced Multicomponent Cascade Cycloaddition Involving N-Propargyl Aromatic Amines, Diaryliodonium Salts, and Sulfur Dioxide: Rapid Access to 3-Arylsulfonylquinolines. *Chemical Communications* 2018, Volume 54, 1335-1338.

[3.4]-Spirooxindoles with a Methylenesubstituted Cyclobutyl Ring as Novel Chemical Building Blocks

Spirooxindoles are privileged scaffolds that are present in numerous pharmaceuticals and natural products[1–4]. Given the importance of [3.4]-spirooxindoles, a few studies were focused on their syntheses, and existing synthetic routes do not provide a versatile way of incorporating different substituents in the existing structures.

A *modular approach* to spiro-heterocycles bearing a methylene-substituted cyclobutyl ring is developed by Professor José-Antonio García-López and his colleagues [5, 6].The method allows an easy modification in several points at the scaffold:



The *reactive 2-methylene-cyclobutane group* was introduced as a useful handle for further chemical modification and a synthetic platform for further exploration of chemical space. This synthetic group provides an outstanding possibility to generate molecular libraries bearing the methylene-cyclobutyl ring as a building block.

These [3.4]-spirooxindoles with a methylene-substituted cyclobutyl ring provide a modular approach to get spiro-heterocycles where several parameters can easily be modified and utilized:

- Novel and easily accessible starting materials using simple catalytic system
- Aryl or heteroaryl rings bearing different substituents
- Different types of heterocycles depending on the nature of the chain (size and heteroatom substitution). For example, oxindole, indoline, dihydrobenzofuran, chromane, isochromane, dihydroisoquinoline, etc.
- Possibility to build up molecular complexity by exploiting the terminal olefin reactivity

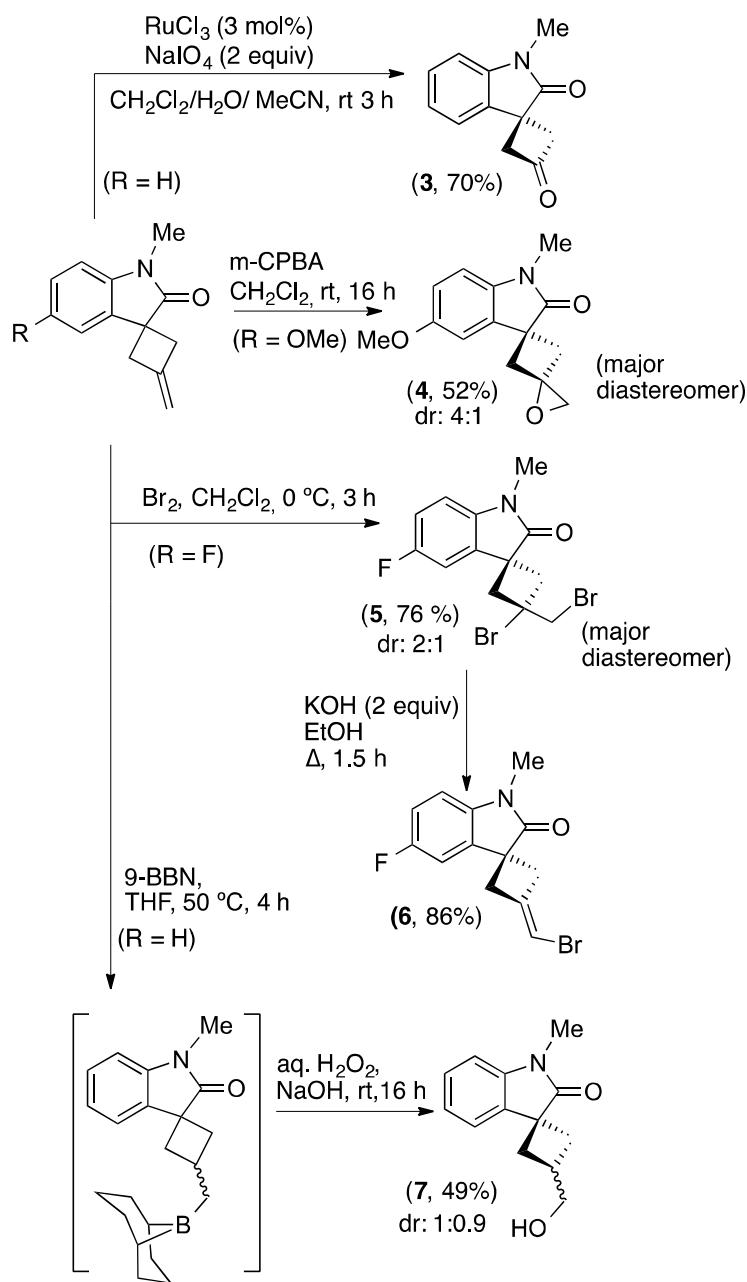
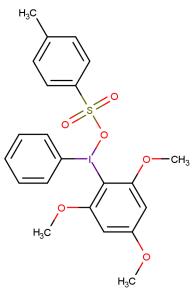


Fig. Further derivatization of the spirooxindole core made possible by 2-methylene-cyclobutane group

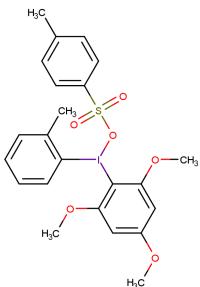
- [1] B. Yu, D. Q. Yu, H. M. Liu, Eur. J. Med. Chem. 2015, 97, 673–698.
- [2] C. V. Galliford, K. A. Scheidt, Angew. Chem. Int. Ed. 2007, 46, 8778–8758; Angew. Chem. 2007, 119, 8934– 8937.
- [3] T. L. Pavlovska, R. G. Redkin, V. V. Lipson, D. V. Atamanuk, Mol. Diversity, 2016, 20, 299–344.
- [4] N. Ye, H. Chen, E. A. Wold, P. Y. Shi, J. Zhou, ACS Infect. Dis. 2016, 2, 382–392.
- [5] H. Azizollahi, M. Pérez-Gómez, V. P. Mehta, J.-A. García-López, Adv. Synth. Catal. 2020, 362, 1899–1900
- [6] H. Azizollahi, V. P. Mehta J.-A. García-López, Chem. Commun., 2019, 55, 10281–10284

phenyl(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



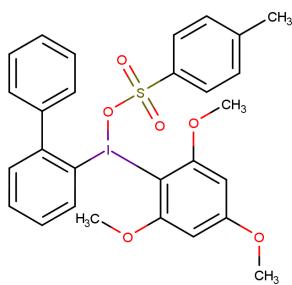
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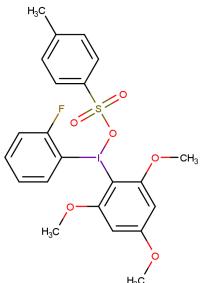
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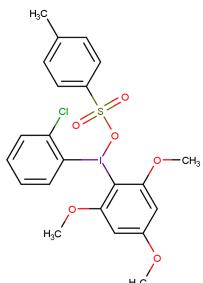
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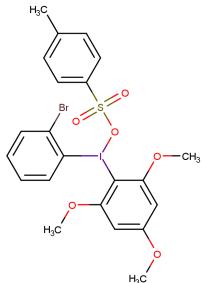
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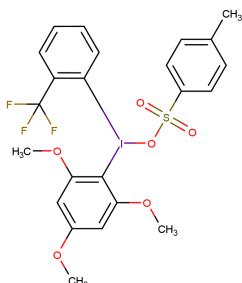
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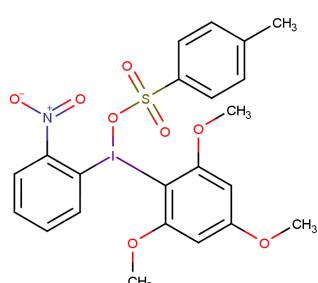
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(2-(trifluoromethyl)phenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



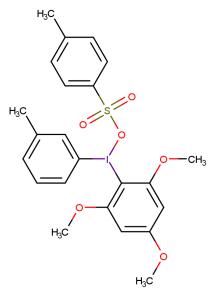
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(2-nitrophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



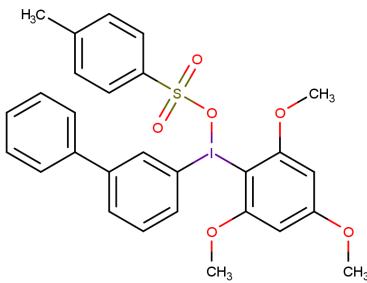
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m-tolyl(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



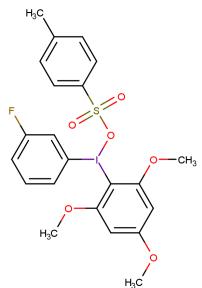
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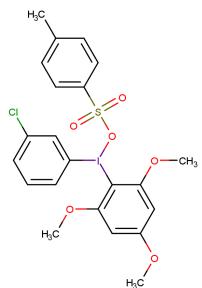
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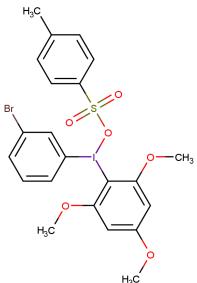
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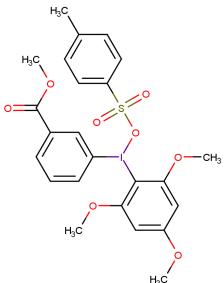
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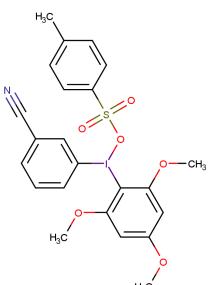
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Mol.fmla	<i>C</i> ₂₂ <i>H</i> ₂₂ <i>BrIO</i> ₆ <i>S</i>
Mol Weight	621.28
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methyl 3-((tosyloxy)(2,4,6-trimethoxyphenyl)-l3-iodaneyl)benzoate



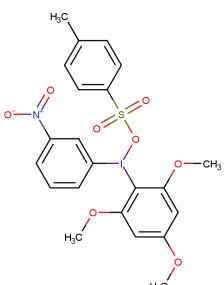
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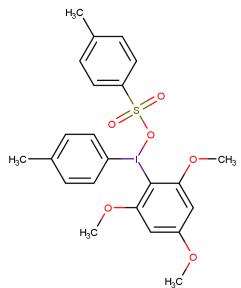
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Mol Weight	567.39
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MDL number	MFCD32899782

(3-nitrophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



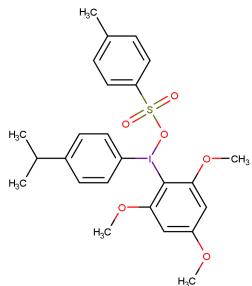
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p-tolyl(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



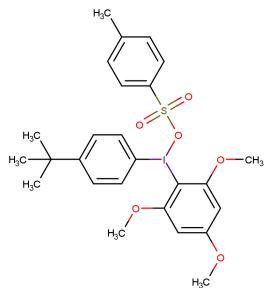
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(4-isopropylphenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



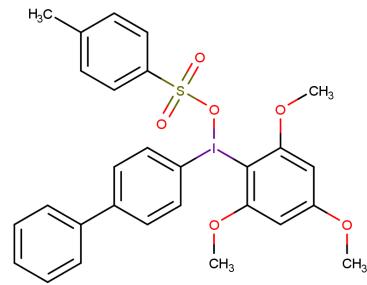
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MDL number	MFCD32899785

(4-(tert-butyl)phenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



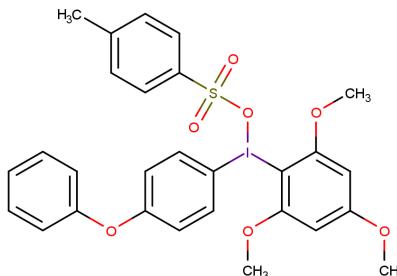
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Mol Weight	598.49
CAS number	1868173-08-3
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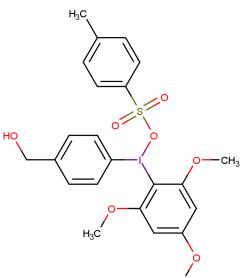
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Mol.fmla	$C_{28}H_{27}IO_6S$
Mol Weight	618.48
CAS number	1868173-14-1
MDL number	MFCD32899787

(4-phenoxyphenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



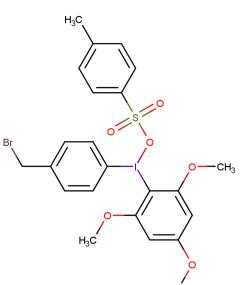
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MDL number	MFCD32899788

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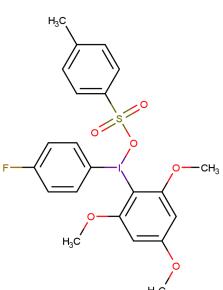
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(4-(bromomethyl)phenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



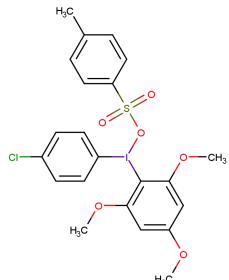
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(4-fluorophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



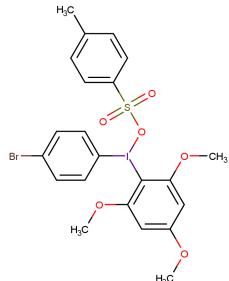
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MDL number	MFCD32899791

(4-chlorophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



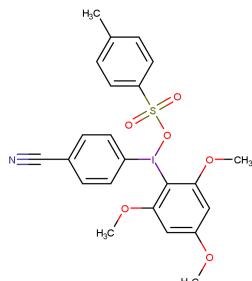
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MDL number	MFCD32899792

(4-bromophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



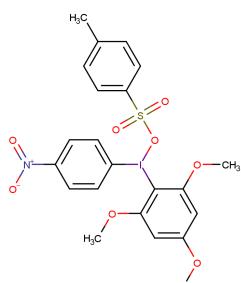
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MDL number	MFCD32899793

(4-cyanophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



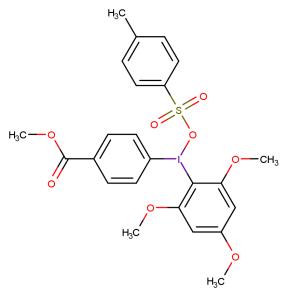
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(4-nitrophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



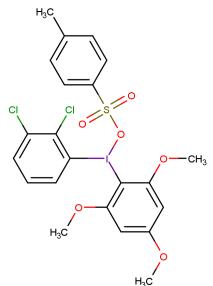
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methyl 4-((tosyloxy)(2,4,6-trimethoxyphenyl)-l3-iodaneyl)benzoate



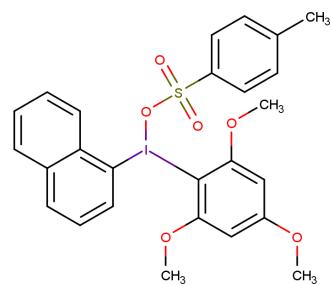
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Mol Weight	600.42
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(2,3-dichlorophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



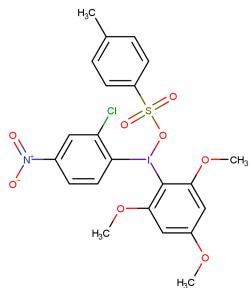
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Mol Weight	611.27
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MDL number	MFCD32899797

naphthalen-1-yl(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



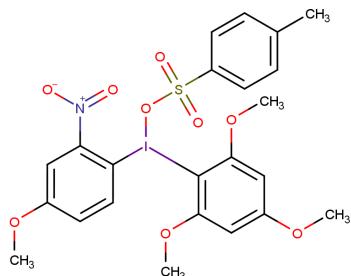
Catalog Number	RX-7098000035
Mol.fmla	<i>C</i> ₂₆ <i>H</i> ₂₅ <i>I</i> <i>O</i> ₆ <i>S</i>
Mol Weight	592.44
CAS number	NA
MDL number	MFCD32899798

(2-chloro-4-nitrophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



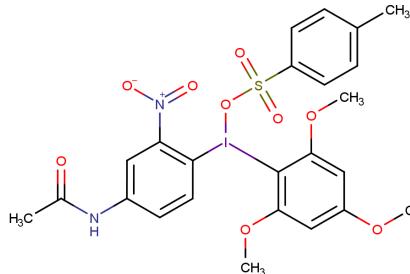
Catalog Number	RX-7098000036
Mol.fmla	<i>C</i> ₂₂ <i>H</i> ₂₁ <i>Cl</i> <i>N</i> <i>O</i> ₈ <i>S</i>
Mol Weight	621.82
CAS number	NA
MDL number	MFCD32899799

(4-methoxy-2-nitrophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



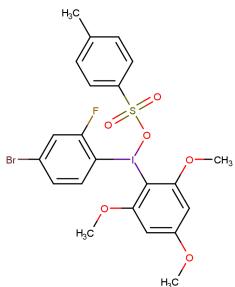
Catalog Number	RX-7098000037
Mol.fmla	$C_{23}H_{24}INO_9S$
Mol Weight	617.41
CAS number	NA
MDL number	MFCD32899800

(4-acetamido-2-nitrophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



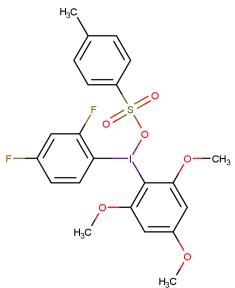
Catalog Number	RX-7098000038
Mol.fmla	$C_{24}H_{25}IN_2O_9S$
Mol Weight	644.43
CAS number	NA
MDL number	MFCD32899801

(4-bromo-2-fluorophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



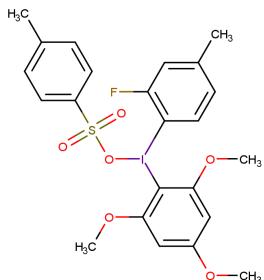
Catalog Number	RX-7098000039
Mol.fmla	$C_{22}H_{21}BrFIO_6S$
Mol Weight	639.27
CAS number	NA
MDL number	MFCD32899802

(2,4-difluorophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



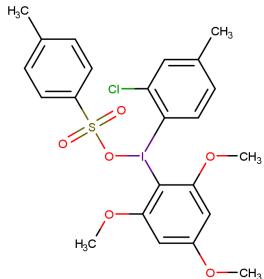
Catalog Number	RX-7098000040
Mol.fmla	$C_{22}H_{21}F_2IO_6S$
Mol Weight	578.37
CAS number	NA
MDL number	MFCD32899803

(2-fluoro-4-methylphenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



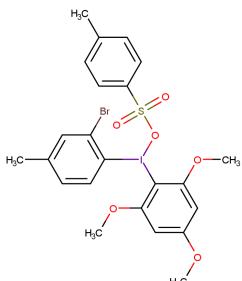
Catalog Number	RX-7098000041
Mol.fmla	$C_{23}H_{24}FIO_6S$
Mol Weight	574.4
CAS number	NA
MDL number	MFCD32899804

(2-chloro-4-methylphenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



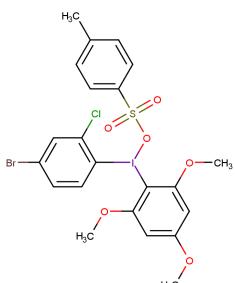
Catalog Number	RX-7098000042
Mol.fmla	$C_{23}H_{24}ClIO_6S$
Mol Weight	590.85
CAS number	NA
MDL number	MFCD32899805

(2-bromo-4-methylphenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



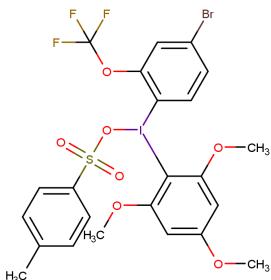
Catalog Number	RX-7098000043
Mol.fmla	$C_{23}H_{24}BrIO_6S$
Mol Weight	635.31
CAS number	NA
MDL number	MFCD32899806

(4-bromo-2-chlorophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



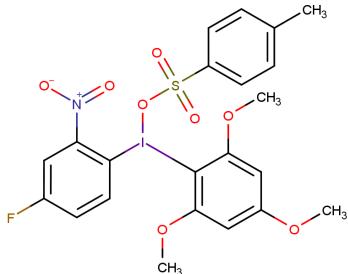
Catalog Number	RX-7098000044
Mol.fmla	$C_{22}H_{21}BrClIO_6S$
Mol Weight	655.72
CAS number	NA
MDL number	MFCD32899807

(4-bromo-2-(trifluoromethoxy)phenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



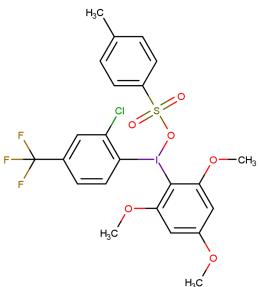
Catalog Number	RX-7098000045
Mol.fmla	$C_{23}H_{21}BrF_3IO_7S$
Mol Weight	705.28
CAS number	NA
MDL number	MFCD32899808

(4-fluoro-2-nitrophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



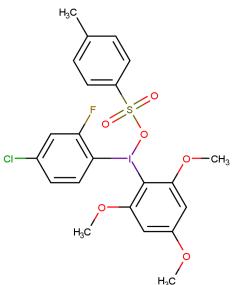
Catalog Number	RX-7098000046
Mol.fmla	$C_{22}H_{21}FINO_8S$
Mol Weight	605.37
CAS number	NA
MDL number	MFCD32899809

(2-chloro-4-(trifluoromethyl)phenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



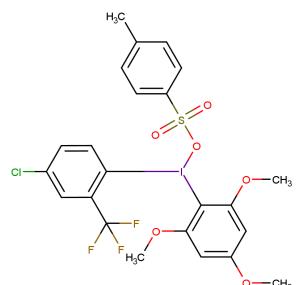
Catalog Number	RX-7098000047
Mol.fmla	$C_{23}H_{21}ClF_3IO_6S$
Mol Weight	644.82
CAS number	NA
MDL number	MFCD32899810

(4-chloro-2-fluorophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



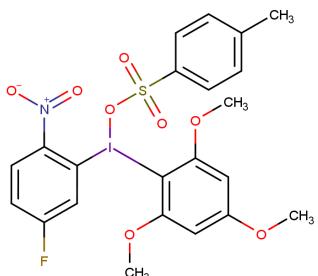
Catalog Number	RX-7098000048
Mol.fmla	$C_{22}H_{21}ClFIO_6S$
Mol Weight	594.82
CAS number	NA
MDL number	MFCD32899811

(4-chloro-2-(trifluoromethyl)phenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



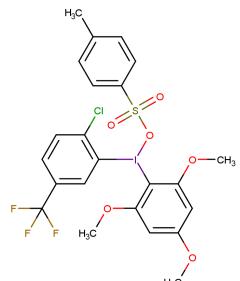
Catalog Number	RX-7098000049
Mol.fmla	$C_{23}H_{21}ClF_3IO_6S$
Mol Weight	644.82
CAS number	NA
MDL number	MFCD32899812

(5-fluoro-2-nitrophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



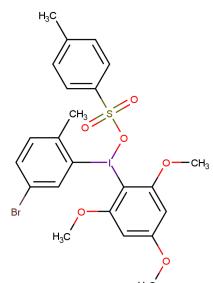
Catalog Number	RX-7098000050
Mol.fmla	$C_{22}H_{21}FINO_8S$
Mol Weight	605.37
CAS number	1868173-33-4
MDL number	MFCD32899813

(2-chloro-5-(trifluoromethyl)phenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



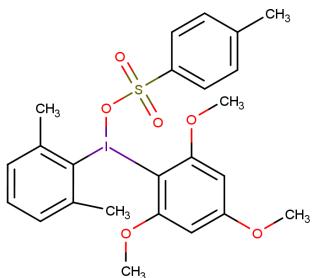
Catalog Number	RX-7098000051
Mol.fmla	$C_{23}H_{21}ClF_3IO_6S$
Mol Weight	644.82
CAS number	1868173-35-6
MDL number	MFCD32899814

(5-bromo-2-methylphenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



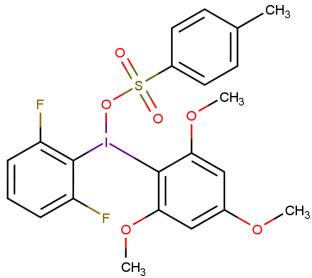
Catalog Number	RX-7098000052
Mol.fmla	$C_{23}H_{24}BrIO_6S$
Mol Weight	635.31
CAS number	NA
MDL number	MFCD32899815

(2,6-dimethylphenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



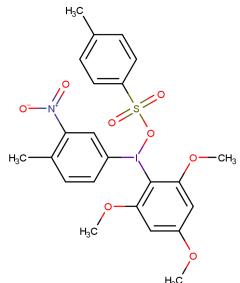
Catalog Number	RX-7098000053
Mol.fmla	$C_{24}H_{27}IO_6S$
Mol Weight	570.44
CAS number	NA
MDL number	MFCD32899816

(2,6-difluorophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



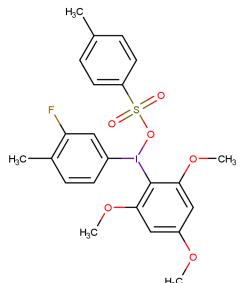
Catalog Number	RX-7098000054
Mol.fmla	$C_{22}H_{21}F_2IO_6S$
Mol Weight	578.37
CAS number	NA
MDL number	MFCD32899817

(4-methyl-3-nitrophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



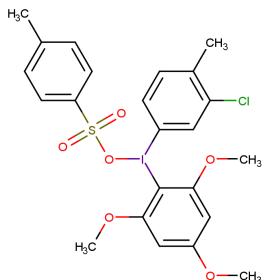
Catalog Number	RX-7098000055
Mol.fmla	$C_{23}H_{24}INO_8S$
Mol Weight	601.41
CAS number	1868173-31-2
MDL number	MFCD32899818

(3-fluoro-4-methylphenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



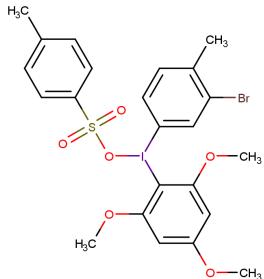
Catalog Number	RX-7098000056
Mol.fmla	$C_{23}H_{24}FIO_6S$
Mol Weight	574.4
CAS number	NA
MDL number	MFCD32899819

(3-chloro-4-methylphenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



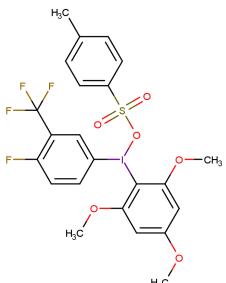
Catalog Number	RX-7098000057
Mol.fmla	$C_{23}H_{24}ClIO_6S$
Mol Weight	590.85
CAS number	1868173-27-6
MDL number	MFCD32899820

(3-bromo-4-methylphenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



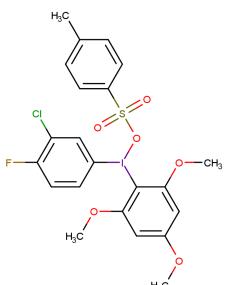
Catalog Number	RX-7098000058
Mol.fmla	$C_{23}H_{24}BrIO_6S$
Mol Weight	635.31
CAS number	NA
MDL number	MFCD32899821

(4-fluoro-3-(trifluoromethyl)phenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



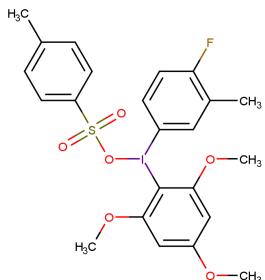
Catalog Number	RX-7098000059
Mol.fmla	$C_{23}H_{21}F_4IO_6S$
Mol Weight	628.37
CAS number	1868173-29-8
MDL number	MFCD32899822

(3-chloro-4-fluorophenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



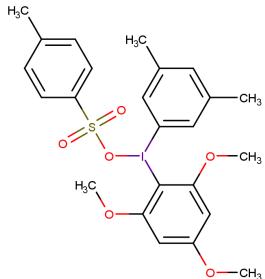
Catalog Number	RX-7098000060
Mol.fmla	$C_{22}H_{21}ClFO_6S$
Mol Weight	594.82
CAS number	NA
MDL number	MFCD32899823

(4-fluoro-3-methylphenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



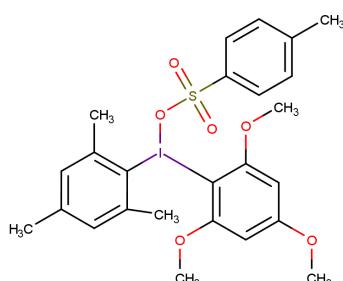
Catalog Number	RX-7098000061
Mol.fmla	$C_{23}H_{24}FIO_6S$
Mol Weight	574.4
CAS number	NA
MDL number	MFCD32899824

(3,5-dimethylphenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



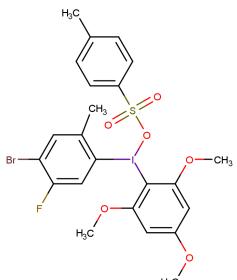
Catalog Number	RX-7098000062
Mol.fmla	$C_{24}H_{27}IO_6S$
Mol Weight	570.44
CAS number	1868173-23-2
MDL number	MFCD32899825

mesityl(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



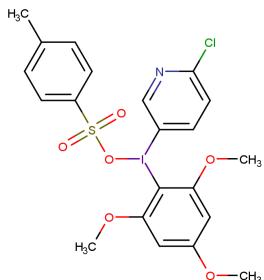
Catalog Number	RX-7098000063
Mol.fmla	$C_{25}H_{29}IO_6S$
Mol Weight	584.47
CAS number	1817741-05-1
MDL number	MFCD32899826

(4-bromo-5-fluoro-2-methylphenyl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



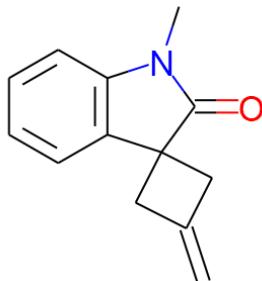
Catalog Number	RX-7098000064
Mol.fmla	$C_{23}H_{23}BrFO_6S$
Mol Weight	653.3
CAS number	NA
MDL number	MFCD32899827

(6-chloropyridin-3-yl)(2,4,6-trimethoxyphenyl)-l3-iodaneyl 4-methylbenzenesulfonate



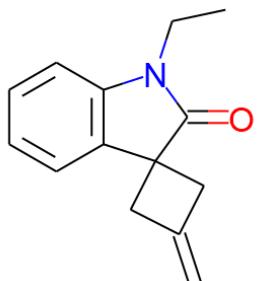
Catalog Number	RX-7098000065
Mol.fmla	<i>C</i> ₂₁ <i>H</i> ₂₁ <i>ClIN</i> ₆ <i>S</i>
Mol Weight	577.81
CAS number	1868173-37-8
MDL number	MFCD32899828

1'-methyl-3-methylenespiro[cyclobutane-1,3'-indolin]-2'-one



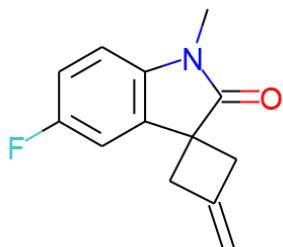
Catalog Number	RX-S01
Mol.fmla	<i>C</i> ₁₃ <i>H</i> ₁₃ <i>NO</i>
Mol Weight	199.25
CAS number	NA
MDL number	MFCD32899829

1'-ethyl-3-methylenespiro[cyclobutane-1,3'-indolin]-2'-one



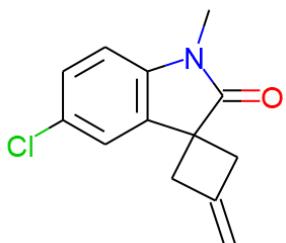
Catalog Number	RX-S02
Mol.fmla	<i>C</i> ₁₄ <i>H</i> ₁₅ <i>NO</i>
Mol Weight	213.28
CAS number	NA
MDL number	MFCD32899830

5'-fluoro-1'-methyl-3-methylenespiro[cyclobutane-1,3'-indolin]-2'-one



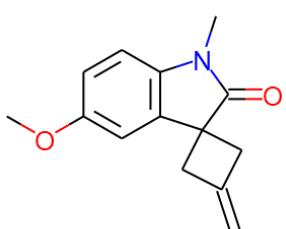
Catalog Number	RX-S03
Mol.fmla	<i>C</i> ₁₃ <i>H</i> ₁₂ <i>FNO</i>
Mol Weight	217.24
CAS number	NA
MDL number	MFCD32899831

5'-chloro-1'-methyl-3-methylenespiro[cyclobutane-1,3'-indolin]-2'-one



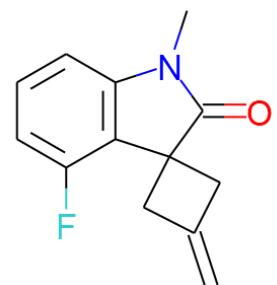
Catalog Number	RX-S04
Mol.fmla	<i>C₁₃H₁₂ClNO</i>
Mol Weight	233.70
CAS number	NA
MDL number	MFCD32899832

5'-methoxy-1'-methyl-3-methylenespiro[cyclobutane-1,3'-indolin]-2'-one



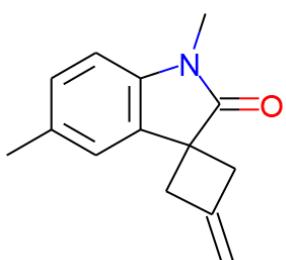
Catalog Number	RX-S05
Mol.fmla	<i>C₁₄H₁₅NO₂</i>
Mol Weight	229.28
CAS number	NA
MDL number	MFCD32899833

4'-fluoro-1'-methyl-3-methylenespiro[cyclobutane-1,3'-indolin]-2'-one



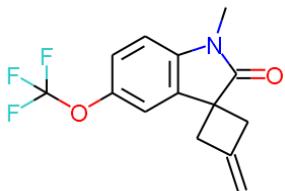
Catalog Number	RX-S06
Mol.fmla	<i>C₁₃H₁₂FNO</i>
Mol Weight	217.24
CAS number	NA
MDL number	MFCD32899834

1',5'-dimethyl-3-methylenespiro[cyclobutane-1,3'-indolin]-2'-one



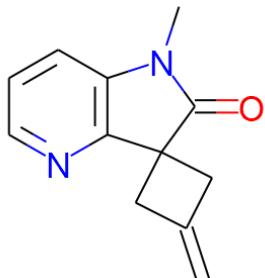
Catalog Number	RX-S07
Mol.fmla	<i>C₁₄H₁₅NO</i>
Mol Weight	213.28
CAS number	NA
MDL number	MFCD32899835

1'-methyl-3-methylene-5'-(trifluoromethoxy)spiro[cyclobutane-1,3'-indolin]-2'-one



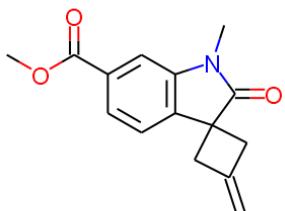
Catalog Number	RX-S08
Mol.fmla	$C_{14}H_{12}F_3NO_2$
Mol Weight	283.25
CAS number	NA
MDL number	MFCD32899836

1'-methyl-3-methylenespiro[cyclobutane-1,3'-pyrrolo[3,2-b]pyridin]-2'(1'H)-one



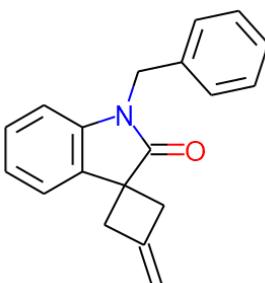
Catalog Number	RX-S09
Mol.fmla	$C_{12}H_{12}N_2O$
Mol Weight	200.24
CAS number	NA
MDL number	MFCD32899837

methyl 1'-methyl-3-methylene-2'-oxospiro[cyclobutane-1,3'-indoline]-6'-carboxylate



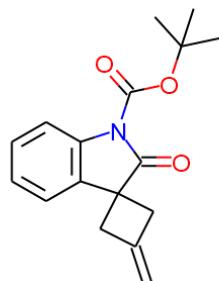
Catalog Number	RX-S10
Mol.fmla	$C_{15}H_{15}NO_3$
Mol Weight	257.29
CAS number	NA
MDL number	MFCD32899838

1'-benzyl-3-methylenespiro[cyclobutane-1,3'-indolin]-2'-one



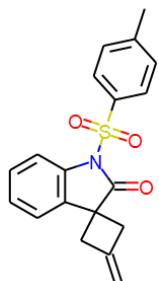
Catalog Number	RX-V11
Mol.fmla	$C_{19}H_{17}NO$
Mol Weight	275.35
CAS number	NA
MDL number	MFCD32899839

tert-butyl 3-methylene-2'-oxospiro[cyclobutane-1,3'-indoline]-1'-carboxylate



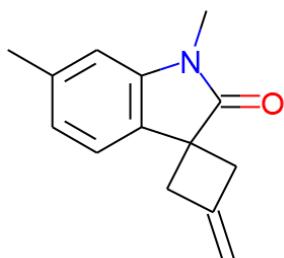
Catalog Number	RX-V12
Mol.fmla	$C_{17}H_{19}NO_3$
Mol Weight	285.34
CAS number	NA
MDL number	MFCD32899840

3-methylene-1'-tosylspiro[cyclobutane-1,3'-indolin]-2'-one



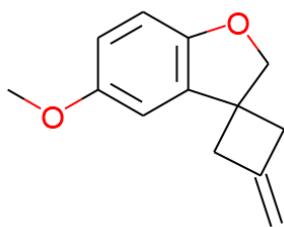
Catalog Number	RX-V13
Mol.fmla	$C_{19}H_{17}NO_3S$
Mol Weight	339.41
CAS number	NA
MDL number	MFCD32899841

1',6'-dimethyl-3-methylenespiro[cyclobutane-1,3'-indolin]-2'-one



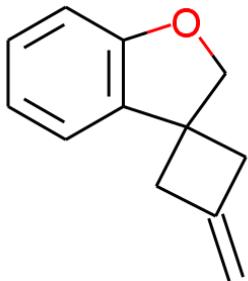
Catalog Number	RX-V14
Mol.fmla	$C_{14}H_{15}NO$
Mol Weight	213.28
CAS number	NA
MDL number	MFCD32899842

5-methoxy-3'-methylene-2H-spiro[benzofuran-3,1'-cyclobutane]



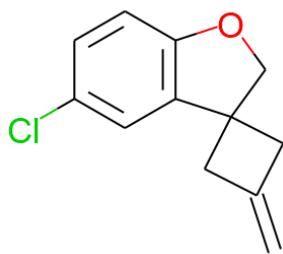
Catalog Number	RX-V15
Mol.fmla	$C_{13}H_{14}O_2$
Mol Weight	202.25
CAS number	NA
MDL number	MFCD32899843

3'-methylene-2H-spiro[benzofuran-3,1'-cyclobutane]



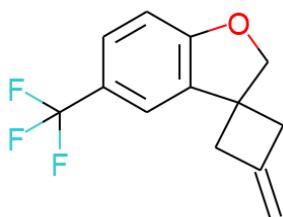
Catalog Number	RX-V16
Mol.fmla	$C_{12}H_{12}O$
Mol Weight	172.23
CAS number	NA
MDL number	MFCD32899844

5-chloro-3'-methylene-2H-spiro[benzofuran-3,1'-cyclobutane]



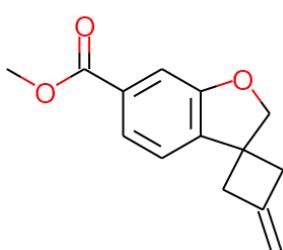
Catalog Number	RX-V17
Mol.fmla	$C_{12}H_{11}ClO$
Mol Weight	206.67
CAS number	NA
MDL number	MFCD32899845

3'-methylene-5-(trifluoromethyl)-2H-spiro[benzofuran-3,1'-cyclobutane]



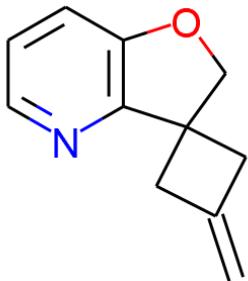
Catalog Number	RX-V18
Mol.fmla	$C_{13}H_{11}F_3O$
Mol Weight	240.23
CAS number	NA
MDL number	MFCD32899846

methyl 3'-methylene-2H-spiro[benzofuran-3,1'-cyclobutane]-6-carboxylate



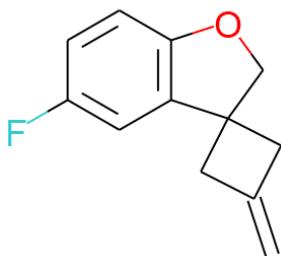
Catalog Number	RX-V19
Mol.fmla	$C_{14}H_{14}O_3$
Mol Weight	230.26
CAS number	NA
MDL number	MFCD32899847

3-methylene-2'H-spiro[cyclobutane-1,3'-furo[3,2-b]pyridine]



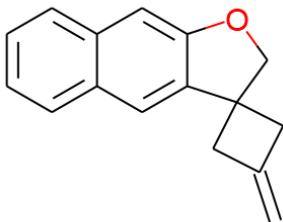
Catalog Number **RX-V20**
Mol.fmla *C₁₁H₁₁NO*
Mol Weight 173.22
CAS number NA
MDL number MFCD32899848

5-fluoro-3'-methylene-2H-spiro[benzofuran-3,1'-cyclobutane]



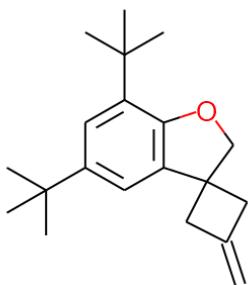
Catalog Number **RX-V21**
Mol.fmla *C₁₂H₁₁FO*
Mol Weight 190.22
CAS number NA
MDL number MFCD32899849

3-methylene-2'H-spiro[cyclobutane-1,3'-naphtho[2,3-b]furan]



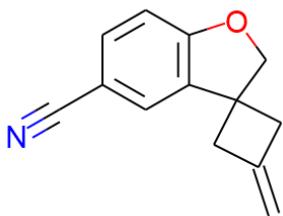
Catalog Number **RX-V22**
Mol.fmla *C₁₆H₁₄O*
Mol Weight 222.29
CAS number NA
MDL number MFCD32899850

5,7-di-tert-butyl-3'-methylene-2H-spiro[benzofuran-3,1'-cyclobutane]



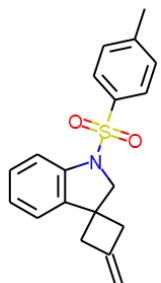
Catalog Number **RX-V23**
Mol.fmla *C₂₀H₂₈O*
Mol Weight 284.44
CAS number NA
MDL number MFCD32899851

3'-methylene-2H-spiro[benzofuran-3,1'-cyclobutane]-5-carbonitrile



Catalog Number	RX-V24
Mol.fmla	<i>C</i> ₁₃ <i>H</i> ₁₁ <i>NO</i>
Mol Weight	197.24
CAS number	NA
MDL number	MFCD32899852

3-methylene-1'-tosylspiro[cyclobutane-1,3'-indoline]



Catalog Number	RX-V25
Mol.fmla	<i>C</i> ₁₉ <i>H</i> ₁₉ <i>NO</i> ₂ <i>S</i>
Mol Weight	325.43
CAS number	NA
MDL number	MFCD32899853