CD BioGlyco
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Product Information

Sodium channel inhibitor Ibutilide fumarate, Purity ≥98%

Cat. No.: X24-07-ZQ331

Size: 10 mg; 50 mg; 100 mg; 200 mg

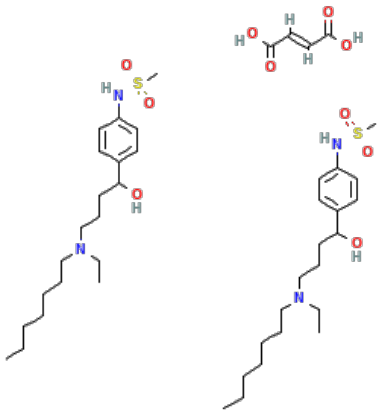
MDL: MFCD01715410

CAS Number: 122647-32-9

Compound CID: 5281065

Synonym: 122647-32-9; Sodium channel inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Ibutilide fumarate, soluble in DMSO, water and ethanol, blocks sodium channels, affecting the action potential propagation in neurons and muscle cells, crucial for neurological and muscular function.
Molecular Weight	885.2
Molecular Formula	$(C_{20}H_{36}N_2O_3S)_2.C_4H_4O$
IUPAC Name	(*E*)-but-2-enedioic acid;N-[4-[4-[ethyl(heptyl)amino]-1-hydroxybutyl]phenyl]methanesulfonamide
InChI	InChI=1S/2C20H36N2O3S.C4H4O4/c2*1-4-6-7-8-9-16-22(5-2)17-10-11-20(23)18-12-14-19(15-13-18)21-26(3,24)25;5-3(6)1-2-4(7)8/h2*12-15,20-21,23H,4-11,16-17H2,1-3H3;1-2H,(H,5,6)(H,7,8)/b;;2-1+
InChI Key	PCIOHQNIRPWFMV-WXXKFALUSA-N
Canonical SMILES	CCCCCCCN(CC)CCCC(C1=CC=C(C=C1)NS(=O)(=O)C)O.CCCCCCCN(CC)CCCC(C1=CC=C(C=C1)NS(=O)(=O)C)O.C(=CC(=O)O)C(=O)O
Isomeric SMILES	CCCCCCCN(CC)CCCC(C1=CC=C(C=C1)NS(=O)(=O)C)O.CCCCCCCN(CC)CCCC(C1=CC=C(C=C1)NS(=O)(=O)C)O.C(=C/C(=O)O)\C(=O)O
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 88 mg/mL (99.4 mM); Water: 88 mg/mL (99.4 mM); Ethanol: 88 mg/mL
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade

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Applications	Ibutilide fumarate is utilized in arrhythmia research for its effects on cardiac electrical activity and repolarization.
Storage	Store at -20ºC, and keep desiccated.

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