

Product Name : MK-0448

Synonyms : MK0448

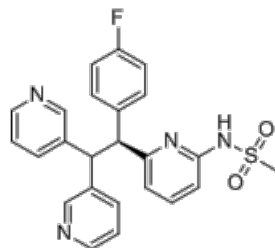
Cat No. : M16363

CAS Number : 875562-81-5

Molecular Formula : C₂₄H₂₁FN₄O₂S

Formula Weight : 448.52

Chemical Name : N-[6-[(1S)-1-(4-fluorophenyl)-2,2-di(pyridin-3-yl)ethyl]pyridin-2-yl]methanesulfonamide



Description : MK-0448 is a potent, specific I(Kur) current/Kv1.5 channel inhibitor with IC₅₀ of 8.6 nM, potently inhibits I(Kur) in human atrial myocytes with IC₅₀ of 10.8 nM; also demonstrates a potent effect on currents associated with other Kv1.x and Kv2.x subunits, such as Kv1.7 and Kv2.1, with IC₅₀ of 72 and 61 nM, respectively; displays >70-fold concentration than inhibition of I(Kur); significantly causes prolongation of the atrial refractory period in normal anesthetized dogs. Heart Arrhythmia Phase 1 Clinical

Pathway : Cell Cycle/DNA Damage

Target : Potassium Channel

Receptor : Potassium Channel

Solubility : —

SMILES : CS(=O)(NC1=NC([C@H](C2=CC=C(F)C=C2)C(C3=CC=CN=C3)C4=CC=CN=C4)=CC=C1)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Pavri BB, et al. Circ Arrhythm Electrophysiol. 2012 Dec;5(6):1193-201. | 2. Loose S, et al. Front Pharmacol. 2014 Mar 4;5:26. | 3. Wolkenberg SE, et al. Bioorg Med Chem Lett. 2017 Feb 15;27(4):1062-1069.