

Product Name : Vanoxerine dihydrochloride

Synonyms : Boxeprazine; GBR-12909; GBR12909; GBR 12909

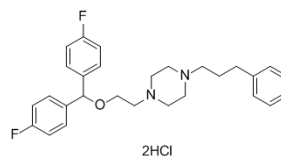
Cat No. : M15576

CAS Number : 67469-78-7

Molecular Formula : C₂₈H₃₂F₂N₂O

Formula Weight : 450.56

Chemical Name : Piperazine, 1-[2-[bis(4-fluorophenyl)methoxy]ethyl]-4-(3-phenylpropyl)-, hydrochloride (1:2)



Description : Vanoxerine (GBR-12909, I-893) is a highly potent inhibitor of dopamine uptake in vitro in tissue slices obtained from rat neostriatum with IC₅₀ of 40-50 nM, also inhibits norepinephrine uptake with IC₅₀ of 560-2600 nM; Vanoxerine also is a potent hK(v)11.1 blocker, and at submicromolar concentrations, it blocks Ca and Na currents in a strongly frequency-dependent manner possesses anticonvulsant activity in zebrafish and rodent models of generalized epilepsy but with cardiac ion channel effects. Heart Arrhythmia Phase 3 Discontinued

Pathway : Membrane Transporter/Ion Channel

Target : Monoamine Transporter

Receptor : Monoamine Transporter

Solubility : DMSO: 9.4 mg/mL

SMILES : C1CN(CCN1CCCC2=CC=CC=C2)CCOC(C3=CC=C(C=C3)F)C4=CC=C(C=C4)F.Cl.Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Teicher MH, et al. Brain Res. 1986 Nov;395(1):124-8. | 2. Heikkila RE, et al. Eur J Pharmacol. 1984 Aug 17;103(3-4):241-8. | 3. Lacerda AE, et al. J Cardiovasc Electrophysiol. 2010 Mar;21(3):301-10. | 4. Goldsmith P, et al. Pharmacology. 2007;79(4):250-8.