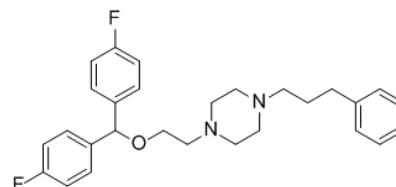


Product Name : Vanoxerine
Cat. No. : PC-43400
CAS No. : 67469-69-6
Molecular Formula : C₂₈H₃₂F₂N₂O
Molecular Weight : 450.5633
Target : Monoamine Transporter
Solubility : 10 mM in DMSO



Biological Activity

Vanoxerine (GBR-12909, I-893, Boxepazine) 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.

Vanoxerine 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.

Vanoxerine also is a cancer-specific downregulator of **G9a expression**, suppresses cancer stem cell functions in colon tumors.

References

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- Lacerda AE, et al. *J Cardiovasc Electrophysiol.* 2010 Mar;21(3):301-10.
- Goldsmith P, et al. *Pharmacology.* 2007;79(4):250-8.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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