

Product Name : Rotigotine hydrochloride

Synonyms : Rotigotine HCl

Cat No. : M11042

CAS Number : 125572-93-2

Molecular Formula : C₁₉H₂₆ClNOS

Formula Weight : 351.93

Chemical Name : 1-Naphthalenol, 5,6,7,8-tetrahydro-6-[propyl[2-(2-thienyl)ethyl]amino]-, hydrochloride (1:1), (6S)-

Description : A non-selective agonist of the dopamine D3 receptor (K_i=0.71 nM); has 10-fold selectivity for the D3 receptor over the D2, D4, and D5 receptors and 100-fold selectivity for the D3 receptor over the D1 receptor; behaves as a full agonist of D1, D2, and D3 with similar potencies (EC₅₀) in functional assay; also demonstrates significant affinity at α-adrenergic (α₂B, K_i=27 nM) and serotonin receptors (5-HT_{1A} K_i=30 nM); significantly attenuates MPTP-induced acute cell degeneration in mouse model. Parkinson's Disease Approved

Pathway : GPCR/G Protein

Target : Dopamine Receptor

Receptor : Dopamine Receptor

Solubility : 10 mM in DMSO

SMILES : CCCCN(CCC=CC=CS1)C2CCC3=C(C2)C=CC=C3O.Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Wood M, et al. Br J Pharmacol. 2015 Feb;172(4):1124-35. | 2. Scheller D, et al. Naunyn Schmiedeberg's Arch Pharmacol. 2009 Jan;379(1):73-86. | 3. Scheller D, et al. Neurosci Lett. 2008 Feb 13;432(1):30-4.

