

Product Name : Mardepodect

Synonyms : Mardepodec | MP-10 | PF-02545920

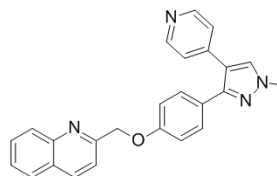
Cat No. : M16463

CAS Number : 898562-94-2

Molecular Formula : C₂₅H₂₀N₄O

Formula Weight : 392.45

Chemical Name : Quinoline, 2-[[4-[1-methyl-4-(4-pyridinyl)-1H-pyrazol-3-yl]phenoxy]methyl]-



Description : A potent and selective PDE10A inhibitor with IC₅₀ of 0.37 nM; displays >1,000-fold selectivity over the PDEs; antagonizes apomorphine-induced climbing in mice, inhibits conditioned avoidance responding in both rats and mice, and blocks NMDA antagonist-induced deficits in prepulse inhibition of acoustic startle response in rats; dose-dependently increases c-Fos immunopositive nuclei in all regions of neostriatum in the DRd1a-tdTomato mice; improves cortico-basal ganglia function in huntington's disease models; orally bioavailable. Schizophrenia Phase 2 Discontinued.

Pathway : Angiogenesis

Target : PDE

Receptor : PDE

Solubility : DMSO: ≥ 45 mg/mL

SMILES : CN1N=C(C2=CC=C(OCC3=NC4=CC=CC=C4C=C3)C=C2)C(C5=CC=NC=C5)=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Verhoest PR, et al. J Med Chem. 2009 Aug 27;52(16):5188-96. 2. Grauer SM, et al. J Pharmacol Exp Ther. 2009 Nov;331(2):574-90. 3. Beaumont V, et al. Neuron. 2016 Dec 21;92(6):1220-1237.