Product Data Sheet

Product Name: Mardepodect hydrochloride
Cat. No.: GC36541

Chemical Properties

Cas. No.	2070014-78-5		
SMILES	CN1N=C(C2=CC=C(OCC3=NC4=CC=CC=C4C=C3)C=C2)C(C5=CC=NC=C5)=C1.Cl[H]		
Formula	$C_{25}H_{21}ClN_4O$	M.Wt	428.91
Solubility	DMSO: 25 mg/mL (58.29 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Mardepodect hydrochloride		

Background

Mardepodect hydrochloride (PF-2545920 hydrochloride) is a potent and selective PDE10A inhibitor with an IC50 of 0.37 nM, with >1000-fold selectivity over the PDE. IC50: 0.37 nM (PDE10A)[1].

In the conditioned avoidance response assay (CAR), Mardepodect (PF-2545920) is active with an ED50 of 1 mg/kg. Administration of Mardepodect (PF-2545920) to mice causes a dose dependent increase in striatal cGMP.

[1]. Wilson JM et al. Phosphodiesterase 10A inhibitor, MP-10 (PF-2545920), produces greater induction of c-Fos in D2 neurons than in D1 neurons in the neostriatum. Neuropharmacology. 2015 Dec;99:379-86. [2]. Verhoest PR et al. Discovery of a novel class of phosphodiesterase 10A inhibitors and identification of clinical candidate 2-[4-(1-methyl-4-pyridin-4-yl-1H-pyrazol-3-yl)-phenoxymethyl]-quinoline (PF-2545920) for the treatment of schizophrenia. J Med Chem. 2009 Aug 27;52(16):5188-96.

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