
PF-2545920

产品编号: D51087

CAS: 898562-94-2

分子式: C₂₅H₂₀N₄O

纯度: ≥98%

InChi: InChi=1S/C₂₅H₂₀N₄O/c1-29-16-23(18-12-14-26-15-13-18)25(28-29)20-7-10-22(11-8-20)30-17-21-9-6-19-4-2-3-5-24(19)27-21/h2-16H,17H2,1H3

InChi Key: AZEXWHKOMMASPA-UHFFFAOYSA-N

Smiles: CN1C=C(C(=N1)C1C=CC(=CC=1)OCC1C=CC2=CC=CC=C2N=1)C1C=CN=CC=1

外观: 固体粉末

作用通路: Phosphodiesterase (PDE)

溶解性: Soluble in DMSO, not in water

保存条件: Store in dry, dark place for one year.

产品介绍: PF-2545920, also known as Mardepodect, is a phosphodiesterase inhibitor selective for the PDE10A subtype, which is potentially useful for the treatment of schizophrenia.

Phosphodiesterase 10A (PDE10A) is highly expressed in striatal medium spiny neurons of both the direct and indirect output pathways. PDE10A inhibitors have shown behavioral effects in rodent models that predict antipsychotic efficacy. PF-2545920 is active in a range of antipsychotic models, antagonizing apomorphine-induced climbing in mice, inhibiting conditioned avoidance responding in both rats and mice, and blocking N-methyl-D-aspartate antagonist-induced deficits in prepulse inhibition of acoustic startle response in rats, while improving baseline sensory gating in mice.