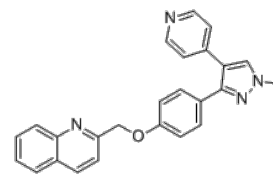


Product Name : PF-2545920
Cat. No. : PC-45821
CAS No. : 898562-94-2
Molecular Formula : C₂₅H₂₀N₄O
Molecular Weight : 392.45
Target : Phosphodiesterase (PDE)
Solubility : DMSO: ≥ 45 mg/mL



Biological Activity

PF-2545920 (Mardepodect) is a potent and selective **PDE10A** inhibitor with IC₅₀ of 0.37 nM.

PF-2545920 (Mardepodect) displays >1,000-fold selectivity over the PDEs.

PF-2545920 (Mardepodect) 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.

PF-2545920 (Mardepodect) dose-dependently increases c-Fos immunopositive nuclei in all regions of neostriatum in the DRd1a-tdTomato mice.

PF-2545920 (Mardepodect) improves cortico-basal ganglia function in huntington's disease models; orally bioavailable.

References

Verhoest PR, et al. *J Med Chem*. 2009 Aug 27;52(16):5188-96.

Grauer SM, et al. *J Pharmacol Exp Ther*. 2009 Nov;331(2):574-90.

Beaumont V, et al. *Neuron*. 2016 Dec 21;92(6):1220-1237.

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

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