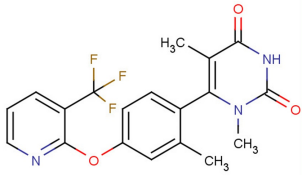
Data Sheet (Cat.No.T16999)

TargetMol
A DRUG SCREENING EXPERT

Tavapadon

Chemical Properties



CAS No.:	1643489-24-0
Formula:	C19H16F3N3O3
Molecular Weight:	391.34
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Tavapadon is an orally active and highly selective dopamine D1/D5 receptor partial agonist.
Targets(IC_{50})	dopamine D1/D5 receptor: None
In vivo	Tavapadon (0.1 mg/kg; s.c.) has the mean maximal unbound plasma concentration of 8 nM and achieves 3 hours after compound administration in captive-bred macaques. Tavapadon (0.02 and 0.04 mg/kg; s.c.) at the 0.04 mg/kg test dose increases locomotor activity, whereas the 0.02 mg/kg dose has little or no effect. Tavapadon (0.04 mg/kg, s.c.) also improves parkinsonian disability scores with the maximal improvement observed at 110 min after drug administration. Higher doses of Tavapadon (0.1 and 0.15 mg/kg; s.c.) cause statistically significant improvement relative to vehicle in locomotor activity [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.555 mL	12.777 mL	25.553 mL
5 mM	0.511 mL	2.555 mL	5.111 mL
10 mM	0.256 mL	1.278 mL	2.555 mL
50 mM	0.051 mL	0.256 mL	0.511 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Young D, et al. D1 Agonist Improved Movement of Parkinsonian Nonhuman Primates with Limited DyskinesiaSide Effects. ACS Chem Neurosci. 2020 Feb 19;11(4):560-566.

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