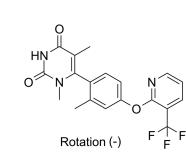
Tavapadon

Cat. No.:	HY-119486				
CAS No.:	1643489-24-0				
Molecular Formula:	$C_{19}H_{16}F_{3}N_{3}O_{3}$				
Molecular Weight:	391.34				
Target:	Dopamine Receptor				
Pathway:	GPCR/G Protein; Neuronal Signaling				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
	1 mM	2.5553 mL	12.7766 mL	25.5532 mL	
	5 mM	0.5111 mL	2.5553 mL	5.1106 mL	
		10 mM	0.2555 mL	1.2777 mL	2.5553 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		
n Vivo	1. Add each solvent	one by one: 10% DMSO >> 90% cor	n oil		

BIOLOGICAL ACTIVITY				
BIOLOGICKE ACTIVITY				
Description	Tavapadon (PF-06649751) is an orally active and highly selective dopamine D1/D5 receptor partial agonist. Tavapadon is effective in enabling movement and reducing disability and has the potential for Parkinson's disease ^[1] .			
IC ₅₀ & Target	dopamine D1/D5 receptor ^[1]			
In Vivo	Tavapadon (PF-06649751; 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 ^[1] . Tavapadon (0.04 mg/kg, s.c.) also improves parkinsonian disability scores with the maximal improvement observed at 110 min after drug administration ^[1] . Higher doses of Tavapadon (0.1 and 0.15 mg/kg; s.c.) leads to statistically significant improvement relative to vehicle in locomotor activity ^[1] . 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^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

• Nat Commun. 2022 Jun 8;13(1):3186.

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REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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