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Data Sheet

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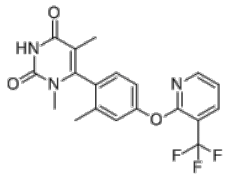
Product Name	:	Tavapadon
Cat. No.	:	PC-35468
CAS No.	:	1643489-24-0
Molecular Formula	:	$C_{19}H_{16}F_3N_3O_3$
Molecular Weight	:	391.35
Target	:	Dopamine Receptor
Solubility	:	10 mM in DMSO



Biological Activity

Tavapadon (CVL-75, PF-06649751) is a potent, selective orally available dopamine **D1/D5** receptor partial agonist with Ki of 9 nM/13 nM, respectively.
Tavapadon (CVL-75, PF-06649751) shows a low affinity at D2 (Ki ≥ 6210 nM), D3 (Ki ≥ 6720 nM), and D4 (Ki ≥ 4870 nM).
Tavapadon (CVL-75, PF-06649751) acts as a partial agonist by binding at D1 and D5 receptors, corresponding to 65% and 81% of dopamine's intrinsic activity, respectively, and inducing functional receptor activation, with half-maximal effective concentration (EC50) values of 19 nM and 17 nM.
Tavapadon (CVL-75, PF-06649751) shows potential for the treatment of early through advanced Parkinson's disease (PD), as well as adjunctive therapy in combination with levodopa produce dose-proportional occupancy of D1/D5 receptors.

References

PCT Int. Appl. (2014), WO 2014207601 A1 20141231.
2. Bezard E, et al. ***CNS Neurol Disord Drug Targets***. 2024;23(4):476-487.

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

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