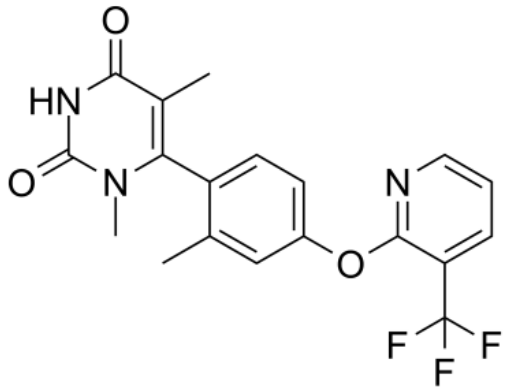
Product Data Sheet

Product Name: (Rac)-Tavapadon
Cat. No.: GC60003

Chemical Properties

Cas. No.	1643462-64-9		
SMILES	O=C1NC(C(C)=C(C2=CC=C(OC3=NC=CC=C3C(F)(F)F)C=C2C)N1C)=O		
Formula	$C_{19}H_{16}F_3N_3O_3$	M.Wt	391.34
Solubility	DMSO: 41.67 mg/mL (106.48 mM); Water: < 0.1 mg/mL (insoluble)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

(Rac)-Tavapadon ((Rac)-PF-06649751; (Rac)-CVL-751) is a potent and selective noncatechol dopamine D1 receptor agonist. (Rac)-Tavapadon displays potent full agonism in the GS activation assay as well as partial agonism in the β-arrestin2 recruitment assay (GS-cAMP, EC50=0.8 nM; β-

arrestin2, EC50=68 nM). (Rac)-Tavapadon has antiparkinsonian activity[1].

(Rac)-Tavapadon ((Rac)-PF-06649751; (Rac)-CVL-751; compound 32) has EMAXs of 118% and 30% in the GS activation assay and the β-arrestin2 recruitment assay[1].

[1]. Michael L Martini, et al. Designing Functionally Selective Noncatechol Dopamine D 1 Receptor Agonists with Potent In Vivo Antiparkinsonian Activity. ACS Chem Neurosci. 2019 Sep 18;10(9):4160-4182.