

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

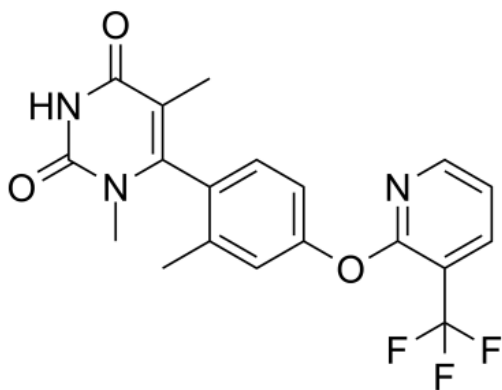
Formula $C_{19}H_{16}F_3N_3O_3$ M.Wt 391.34

Solubility DMSO: 41.67 mg/mL (106.48 mM); Storage Store at -20°C
Water: < 0.1 mg/mL (insoluble)

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, EC_{50} =0.8 nM; β -

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

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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.

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