(Rac)-PF-06256142

Cat. No.: HY-119943A

CAS No.: 1609580-97-3

Molecular Formula: $C_{21}H_{16}N_4O_2$

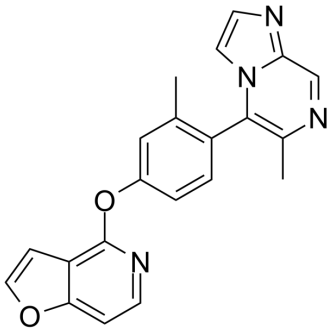
Molecular Weight: 356.38

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

In Vitro

DMSO : 25 mg/mL (70.15 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.8060 mL	14.0300 mL	28.0599 mL
5 mM	0.5612 mL	2.8060 mL	5.6120 mL
10 mM	0.2806 mL	1.4030 mL	2.8060 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (7.01 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (7.01 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.01 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(Rac)-PF-06256142 is the less effective enantiomer of PF-06256142 (HY-119943). (Rac)-PF-06256142 is an agonist of D1 receptor, with an EC_{50} of 107 nM. (Rac)-PF-06256142 can be used for the research of schizophrenia and Parkinson's disease [1].

IC_{50} & Target

Human D_1 Receptor
107 nM (EC50)

REFERENCES

[1]. Davoren JE, et al. Discovery and Lead Optimization of Atropisomer D1 Agonists with Reduced Desensitization. J Med Chem. 2018 Nov 15.

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