Dopamine D2 receptor antagonist-1

Cat. No.: HY-129946

CAS No.: 1055411-77-2

Molecular Formula: $C_{14}H_{17}N_3S$

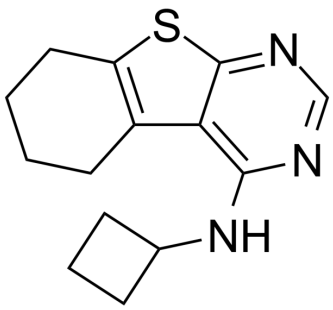
Molecular Weight: 259.37

Target: Dopamine Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (963.87 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.8555 mL	19.2775 mL	38.5550 mL
	5 mM	0.7711 mL	3.8555 mL	7.7110 mL
	10 mM	0.3855 mL	1.9277 mL	3.8555 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 6.25 mg/mL (24.10 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dopamine D2 receptor antagonist-1 is a negative allosteric modulator (NAM) of the dopamine D2 receptor (D2R) with sub-mM affinity[1].

IC_{50} & Target

D2R[1]

REFERENCES

[1]. Fyfe TJ, et al. Subtle modifications to a thieno[2,3-d]pyrimidine scaffold yield negative allosteric modulators and agonists of the dopamine D2 receptor. Eur J Med Chem. 2019 Apr 15;168:474-490.

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

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