SB-408124

Cat. No.: HY-70068

CAS No.: 288150-92-5

Molecular Formula: $C_{19}H_{18}F_2N_4O$

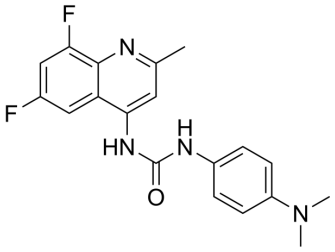
Molecular Weight: 356.37

Target: Orexin Receptor (OX 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 : 50 mg/mL (140.30 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8061 mL	14.0304 mL	28.0608 mL
	5 mM	0.5612 mL	2.8061 mL	5.6122 mL
	10 mM	0.2806 mL	1.4030 mL	2.8061 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: ≥ 2.5 mg/mL (7.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SB-408124 is a non-peptide OX1 receptor antagonist with K_is of 57 nM and 27 nM in whole cell and membrane, respectively. SB-408124 exhibits 50-fold selectivity over OX2 receptor[1].

IC_{50} & Target

OX_1 Receptor 57 nM (Ki, in whole cell)	OX_1 Receptor 27 nM (Ki, in cell membrane)

In Vivo

SB-408124 (30 μg/10 μl; i.c.v.; male Wistar rats) decreases Orexin-A induced water intake in Wistar rats[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Langmead CJ, et al. Characterisation of the binding of [3H]-SB-674042, a novel nonpeptide antagonist, to the human orexin-1 receptor. Br J Pharmacol. 2004;141(2):340-346.

[2]. Kis GK, et al. The osmotically and histamine-induced enhancement of the plasma vasopressin level is diminished by intracerebroventricularly administered orexin in rats. Pflugers Arch. 2012;463(4):531-536.

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