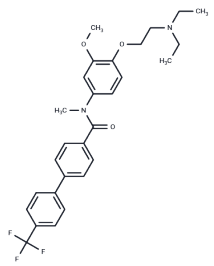
Data Sheet (Cat.No.T16852)

TargetMol

SB-568849

Chemical Properties



CAS No. : 395679-53-5

Formula: C28H31F3N2O3

Molecular Weight: 500.55

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	SB-568849 is an antagonist of the melanin-concentrating hormone receptor 1 (pKi: 7.7).
Targets(IC50)	Melanin-concentrating Hormone Receptor (MCHR),GPCR
In vitro	SB-568849 is a selective SLC-1 antagonist (pKi: 7.7), as determined by radioligand binding displacement assays. Coincubation with SB-568849 (1 μM) for 45 minutes fully inhibits MCH-induced corticotropin-releasing factor (CRF) release, reducing it to basal levels without producing any effect on its own [2].
In vivo	SB-568849 has good receptor affinity and selectivity. SB-568849 displays >30-fold selectivity over a wide range of monoamine receptors and is an antagonist in the FLIPR assay with a pKb of 7.7. SB-568849 retains affinity, demonstrates greater in vivo stability (CLb=16 mL/min/kg), and shows an acceptable brain-blood ratio of 1 [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9978 mL	9.989 mL	19.978 mL
5 mM	0.3996 mL	1.9978 mL	3.9956 mL
10 mM	0.1998 mL	0.9989 mL	1.9978 mL
50 mM	0.040 mL	0.1998 mL	0.3996 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Witty DR, et al. Discovery of potent and stable conformationally constrained analogues of the MCH R1 antagonist SB-568849. Bioorg Med Chem Lett. 2006 Sep 15;16(18):4872-8.
Kennedy AR, et al. Effect of direct injection of melanin-concentrating hormone into the paraventricular nucleus: further evidence for a stimulatory role in the adrenal axis via SLC-1. J Neuroendocrinol. 2003 Mar;15(3):268-72.
Witty DR, et al. SAR of biphenyl carboxamide ligands of the human melanin-concentrating hormone receptor 1 (MCH R1): discovery of antagonist SB-568849. Bioorg Med Chem Lett. 2006 Sep 15;16(18):4865-71.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481