

SB-568849

Catalog No: tcsc0018460



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg



Specifications

CAS No:

395679-53-5

Formula:

$C_{28}H_{31}F_3N_2O_3$

Pathway:

GPCR/G Protein

Target:

MCHR1 (GPR24)

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

500.55

Product Description

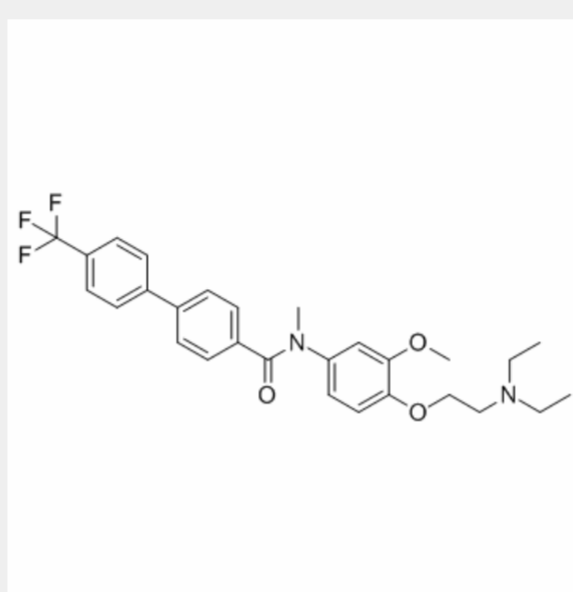
SB-568849 is a **melanin-concentrating hormone receptor 1 (MCH R1)** antagonist with a **pK_i** of 7.7.

IC50 & Target: MCH R1 receptor^[1]

In Vitro:

SB-568849 is a selective SLC-1 antagonist with a pK_i of 7.7 as determined in radioligand binding displacement assays; coincubation of tissue with 1 μ M SB-568849 for 45 min completely inhibits the MCH induced increase in corticotropin-releasing factor (CRF) release to basal levels without causing any effect on its own. The only reported MCH receptor in the rat is SLC-1, a G protein coupled receptor found throughout the brain and periphery^[2].

In Vivo: SB-568849 (Compound 15h) possesses good receptor affinity and selectivity. SB-568849 proves to be an antagonist with stability in vivo, an acceptable brain-blood ratio and oral bioavailability. SB-568849 retains affinity, demonstrates greater in vivo stability ($CL_b=16$ mL/min/kg) and shows an acceptable brain-blood ratio of 1. SB-568849 also shows >30-fold selectivity over a wide range of monoamine receptors and is an antagonist in the FLIPR assay with a pK_b of 7.7^[3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!