For Research Use Only SB-705498



Catalog Number: CM06814

产品信息	Catalog Number: CM06814 CAS号: 501951-42-4 分子式: C ₁₇ H ₁₆ BrF ₃ N ₄ O 主要靶点: TRP/TRPV Channel 主要通路: 离子通道	分子量: 429.23 溶解度: DMSO:80 mg/mL(186.4 mM),Ethanol:16 mg/mL(37.3 mM),H2O:<1 mg/mL
靶点活性	hTRPV1:7.1(pIC50) hTRPV1:7.6(pKi)	F
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体外活性	SB705498 (0.3 nM-1 µ M) potently inhibits capsaicin-induced activation of human TRPV1 expressed in 1321N1 cells or HEK293 cells with apparent pKi of 7.5 or 7.6, respectively. Coapplication of 100 nM SB705498 rapidly, completely and reversibly inhibits hTRPV1 expressed in HEK293 cells. SB705498 has no significant effect on endogenous [Ca2+] responses in HEK293 cells produced by muscarinic acetylcholine receptor activation with carbachol or store-operated channel-mediated Ca2+ entry after depletion of intracellular stores with the Ca2+ pump inhibitor thapsigargin. SB705498 (10 pM-1 µ M) also has no significant antagonist effect versus the close TRPV1 receptor paralog TRPV4 transiently expressed in HEK293 cells and activated using the synthetic ligand 4 a -phorbol-12,13-didecanoate (10 µ M). SB705498 reveals good antagonist potency against both the rat and guinea pig TRPV1. SB705498 to the steady state of a maintained capsaicin response leads to rapid and complete inhibition of hTRPV1 at -70 mV. SB705498 inhibits capsaicin-mediated activation of fTRPV1 with IC50 of 3 nM and 17 nM at positive and negative holding potentials (-70 mV and + 70 mV), respectively. Coapplication of 1 µ M SB705498 shows approximately equal activity versus multiple and diverse chemical and physical modes of TRPV1 receptor activation. SB705498 shows approximately equal activity versus a wide range of ion channels, receptors and enzymes. SB705498 produces full blockade of heat as well as pH activation of hTRPV1.[2]	
体内活性	(capsaicin), heat- and acid-mediated activ	blockade against the multiple modes of TRPV1 activation, namely the vanilloid vation of the receptor. SB705498 displays excellent activity at 10 and 30 mg/kg po 18 is also shown to give 80% reversal of allodynia in the guinea pig FCA model at 10
描述	SB705498 is a TRPV1 antagonist for hTRPV and Non-allergic Rhinitis.	V1. SB-705498 has been investigated for the treatment of Rhinitis, Chronic Cough,
储存	Powder: -20°C for 3 years In solven	it:-80°C for 2 years