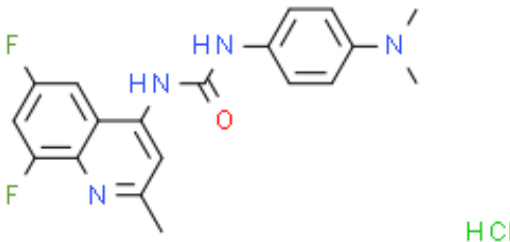


Product Data Sheet

Cas No.:	1431697-90-3	Cat. No:	PC10647
Product Name:	SB-408124 Hydrochloride		
Product synonym:	N-(6,8-二氟-2-甲基-4-喹啉基)-N'-[4-(二甲基氨基)苯基]脲盐酸盐		
Chemical name:	SB-408124 Hydrochloride		
MF:	C19H19CLF2N4O	FW:	392.830169916153
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:	<div></div>		
λmax:	-	Formulation:	-
Solubility :			
SMILES :	O=C(NC1=CC=C(C=C1)N(C)C)NC2=CC(C)=NC(C2=CC(F)=C3)=C3F.[H]Cl		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

OX1受体拮抗剂,SB408124盐酸盐是非肽类OX1受体拮抗剂,在全细胞和细胞膜测试中Ki分别为57 nM和27 nM, 比对OX2受体的抑制性高50倍。

生物活性	SB-408124 Hydrochloride is a selective non-peptide orexin receptor 1 (OX1) receptor antagonist with K_i s of 57 nM and 27 nM in whole cell and membrane, respectively. SB-408124 Hydrochloride exhibits 50-fold selectivity over OX2 receptor.	
IC50 & Target[1][2]	OX ₁ Receptor 57 nM (K _i , in whole cell)	OX ₁ Receptor 27 nM (K _i , in cell membrane)
体外研究(In Vitro)	Primary neuronal cultures from the hypothalamus of newborn SD rats are incubated with orexin A (1 μM), orexin A (1 μM) together with SB-408124 (100 μM) for 6 h. Orexin A-induced increases in arginine vasopressin (AVP) mRNA levels (2.7-fold) are attenuated by SB-408124 (1.2-fold). Medlife has not independently confirmed the accuracy of these methods. They are for reference only.	

体内研究(In Vivo)	<p>SB-408124 reduces anxiety after psychotraumatic exposure. Predator induces acute psychotraumatic exposure decrease corticoliberin level in the rats amygdala. Intranasal administration of SB-408124 restores it closely to normal and has an anxiolytic effect on animal behaviour.</p> <p>Bilateral paraventricular nucleus microinjection of SB-408124 (30 pmol/50 nL per side) results in a greater reduction in mean arterial pressure (MAP) in high-salt intake (-16?mmHg) compared with NS-fed (-4?mmHg) anesthetized Dahl salt-sensitive rats.</p> <p>Medlife has not independently confirmed the accuracy of these methods. They are for reference only.</p>																	
包装储存	<p>4°C, sealed storage, away from moisture</p> <p>*In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)</p>																	
溶解度数据	<div><p>体外研究:</p><p>H₂O : 1 mg/mL (2.55 mM; ultrasonic and warming and heat to 60°C)</p><p>DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)</p><table><tr><td rowspan="4">配制储备溶液</td><td>溶剂体积 浓度</td><td>质量 1 mg</td><td>5 mg</td><td>10 mg</td></tr><tr><td>1 mM</td><td>2.5456 mL</td><td>12.7282 mL</td><td>25.4563 mL</td></tr><tr><td>5 mM</td><td>---</td><td>---</td><td>---</td></tr><tr><td>10 mM</td><td>---</td><td>---</td><td>---</td></tr></table><p>* 产品不同，其溶解度不同。建议根据产品选择合适的溶剂配制储备溶液；配成溶液后，建议分装保存，避免反复冻融造成的产品失效。</p><p>储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)。-80°C 储存时，建议在 6 个月内使用，-20°C 储存时，建议在 1 个月内使用。</p></div>	配制储备溶液	溶剂体积 浓度	质量 1 mg	5 mg	10 mg	1 mM	2.5456 mL	12.7282 mL	25.4563 mL	5 mM	---	---	---	10 mM	---	---	---
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