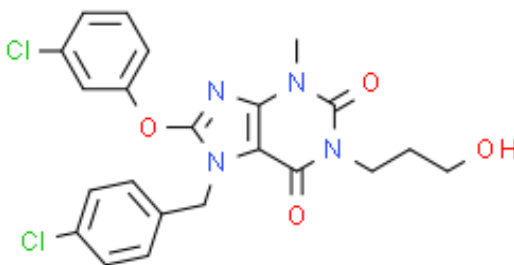


## Product Data Sheet

Cas No.:	1628291-95-1	Cat. No:	PL12455
Product Name:	HC-070		
Product synonym:	化合物 T15465		
Chemical name:	HC-070		
MF:	C22H20CL2N4O4	FW:	475.32460308075
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	N1(CC2=CC=C(Cl)C=C2)C2=C(N(C)C(=O)N(CCCO)C2=O)N=C1OC1=CC=CC(Cl)=C1		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

## Product Description

HC-070 是一种瞬时受体电位通道蛋白 4/5 (TRPC4/TRPC5) 拮抗剂，在细胞中，对 hTRPC5 和 hTRPC4 的 IC50 值分别为 9.3 nM 和 46 nM。

生物活性	HC-070 is an antagonist of TRPC4/TRPC5, with IC 50 s of 9.3 nM and 46 nM for hTRPC5 and hTRPC4 in cells, respectively.
IC50 & Target[1][2]	IC50: 9.3 nM (hTRPC5, cell assay), 46 nM (hTRPC4, cell assay)
体外研究(In Vitro)	HC-070 is an antagonist of TRPC4/TRPC5, with IC50s of 9.3 nM and 46 nM for hTRPC5 and hTRPC4, respectively. HC-070 weakly inhibits TRPC3 (IC50, 1 μM), and is at least 400-fold selective for human TRPC4 and TRPC5-containing channels versus the other channels examined. HC-070 inhibits lanthanum-activated hTRPC5-, mTRPC5-, rTRPC5-mediated currents with IC50s of 0.52 nM, 0.55 nM, and 0.32 nM in whole-cell manual patch clamp. Furthermore, HC-070 blocks M2R-activated human TRPC1/TRPC4 channels with an IC50 of 1.3 nM and La- and M1R-activated human TRPC1/5 channels with IC50s of 1.4 nM and 4.4 nM. HC-070 inhibits human TRPC5 currents activated via muscarinic type 1 (M1R) with an IC50 of 2.0 nM. HC-070 also suppresses hTRPC4 currents via M2R with an IC50 of 0.49 nM. HC-070 (20 nM) reduces CCK-4 evoked neuronal

体内研究(In Vivo)	HC-070 (1 mg/kg, p.o.) affects mice with increased evoked anxiety (CCK-4), but shows no effects in the absence of CCK-4. HC-070 (0.3, 1 or 3 mg/kg, p.o.) decreases anxiety in a standard EPM (more light/high anxiety). HC-070 (1 mg/kg) reduces the increased capacity for fear memory in mice subjected to chronic social stress on days 1-15. In addition, HC-070 (1, 3, 10 mg/kg, p.o.) causes reduction in marble burying behavior. HC-070 (0.3, 1, 3, 10 mg/kg, p.o.) also reduces time of immobility in a tail suspension test but does not impact locomotor activity in mice. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	Powder -20°C 3 years; 4°C 2 years
溶解度数据	In Vitro: DMSO : ≥ 62.5 mg/mL (131.49 mM)配制储备液