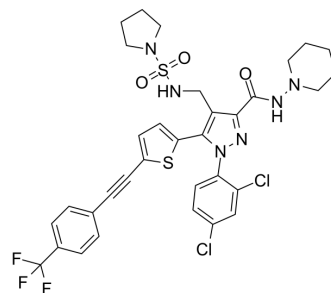


CB1-IN-1

Cat. No.:	HY-12790		
CAS No.:	1429239-98-4		
Molecular Formula:	C ₃₃ H ₃₁ Cl ₂ F ₃ N ₆ O ₃ S ₂		
Molecular Weight:	751.67		
Target:	Cannabinoid Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (166.30 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		1.3304 mL	6.6519 mL	13.3037 mL
		5 mM		0.2661 mL	1.3304 mL	2.6607 mL
10 mM			0.1330 mL	0.6652 mL	1.3304 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (2.77 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (2.77 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	<p>CB1-IN-1 (BPRCB1184) is a peripherally restricted CB1R antagonist, with K_i of 0.3 nM and 21 nM for CB1R (EC₅₀ = 3 nM) and CB2R, respectively. IC₅₀ value: 0.3 nM (K_i, CB1R) 21 nM (K_i, CB2R) Target: CB1R in vivo: CB1-IN-1 is a novel peripherally restricted cannabinoid 1 receptor antagonist with significant weight-loss efficacy in diet-induced obese mice. CB1-IN-1 has great potential to ameliorate this related metabolic syndrome.</p>
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REFERENCES

[1]. Chang CP, et al. Discovery of 1-(2,4-dichlorophenyl)-N-(piperidin-1-yl)-4-((pyrrolidine-1-sulfonamido)methyl)-5-(5-((4-(trifluoromethyl)phenyl)ethynyl)thiophene-2-yl)-

Caution: Product has not been fully validated for medical applications. For research use only.

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