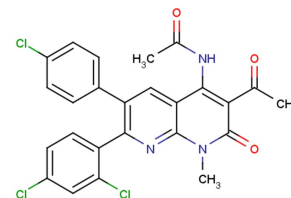


CB1 inverse agonist 1

Chemical Properties

CAS No.:	852315-00-5
Formula:	C ₂₅ H ₁₈ Cl ₃ N ₃ O ₃
Molecular Weight:	514.79
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	CB1 inverse agonist 1 is an orally active, and specific inverse agonist of the CB1 receptor (IC ₅₀ s: 7.5 nM and 4100 nM for CB1 and CB2 receptors) with anorexigenic effects.
Targets(IC ₅₀)	CB1: 7.5 nM CB2: 4100 nM
In vivo	CB1 inverse agonist 1 (Compound 14; 0.3, 1, or 3 mg/kg) inhibits feeding in a dose-dependent manner. The pharmacokinetic profile of CB1 inverse agonist 1 is evaluated in Sprague-Dawley rats, C57BL/6 mice, beagles, and rhesus macaques (t _{1/2} : >8, >8, >24, and 22 h).

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.943 mL	9.713 mL	19.425 mL
5 mM	0.389 mL	1.943 mL	3.885 mL
10 mM	0.194 mL	0.971 mL	1.943 mL
50 mM	0.039 mL	0.194 mL	0.389 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Debenham JS, et al. Synthesis of functionalized 1,8-naphthyridinones and their evaluation as novel, orally active CB1 receptor inverse agonists. *Bioorg Med Chem Lett*. 2006 Feb;16(3):681-5.

Inhibitors · Natural Compounds · Compound Libraries

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