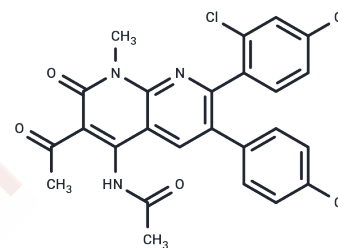


CB1 inverse agonist 1

Chemical Properties

CAS No. :	852315-00-5
Formula:	C ₂₅ H ₁₈ Cl ₃ N ₃ O ₃
Molecular Weight:	514.79
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	CB1 inverse agonist 1 (MRL-650) is an orally active and selective CB1 agonist. The IC ₅₀ s for CB1 and CB2 are 7.5 nM and 4100 nM, respectively. CB1 inverse agonist 1 shows anorexigenic effects.
Targets(IC ₅₀)	Cannabinoid Receptor
In vivo	CB1 inverse agonist 1 (0.3-3 mg/kg) dose-dependently inhibits feeding in a manner[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (87.41 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9425 mL	9.7127 mL	19.4254 mL
5 mM	0.3885 mL	1.9425 mL	3.8851 mL
10 mM	0.1943 mL	0.9713 mL	1.9425 mL
50 mM	0.0389 mL	0.1943 mL	0.3885 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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