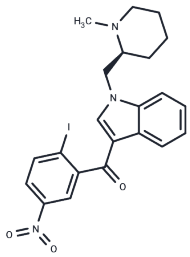
Data Sheet (Cat.No.T38147)

TargetMol

(S)-AM1241

Chemical Properties



CAS No. : 444912-53-2

Formula: C22H22IN3O3

Molecular Weight: 503.33

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	(S)-AM1241 binds to cannabinoid (CB) receptors and is selective for the CB2 over the CB1 receptor (Kis = 658 and >10,000 nM, respectively, in a membrane assay using human receptors). (S)-1241 acts as an agonist at human, rat, and mouse CB2 receptors but shows greater activity at human CB2 (EC50 = 131 nM) than at rat and mouse CB2 receptors (EC50 = 785 and 2,000 nM, respectively). Similar to the racemate AM1241 , (S)-AM1241 produces antinociception to thermal, but not mechanical, pain in rats. The pain-reducing effect of (S)-AM1241 is blocked by the CB2-specific inhibitor SR 144528 but not by either the CB1-selective inhibitor rimonabant or the opioid receptor blocker naloxone .
Targets(IC50)	Others

Solubility Information

Solubility	DMF: 25 mg/mL (49.67 mM),Sonication is recommended. DMF:PBS(pH7.2) (1:2): 0.3 mg/mL (0.6 mM),Sonication is recommended. Ethanol: 5 mg/mL (9.93 mM),Sonication is recommended. DMSO: 10 mg/mL (19.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9868 mL	9.9338 mL	19.8677 mL
5 mM	0.3974 mL	1.9868 mL	3.9735 mL
10 mM	0.1987 mL	0.9934 mL	1.9868 mL
50 mM	0.0397 mL	0.1987 mL	0.3974 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.

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