

BAY 38-7271

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 212188-60-8 |
| Formula: | C ₂₀ H ₂₁ F ₃ O ₅ S |
| Molecular Weight: | 430.44 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

Biological Description

| | |
|----------------------------|--|
| Description | BAY 38-7271 has strong neuroprotective properties.[1] BAY 38-7271 is selective and highly potent and cannabinoid CB1/CB2 receptor agonist. With Kis of 1.85 nM and 5.96 nM for recombinant human CB1 receptor and CB2 receptor, respectively. |
| Targets(IC ₅₀) | CB1: 1.85 nM (ki) CB2: 5.96 nM (ki) |
| In vitro | BAY 38-7271 shows only minor interactions at the micromolar range with other binding sites such as adenosine A3 receptor (IC ₅₀ = 7.5 µM), peripheral GABAA benzodiazepine receptor (IC ₅₀ = 971 nM), at the monoamine transporter (IC ₅₀ = 1.7 µM), and melatonin ML1 receptor (IC ₅₀ = 3.3 µM)[1]. |
| In vivo | BAY 38-7271 (Ed ₅₀ = 0.02 mg/kg; i.v. and 0.5 mg/kg; i.p.) induces a potent and dose-de-pendent reduction in core body temperature[1]. BAY 38-7271 (1-1000 ng/kg/h; i.v. infusion; for 4 hours) shows neuroprotective efficacy in the rat SDH model[1]. BAY 38-7271 has low physical dependence liability and is not essentially different from that of other cannabinoid CB1 receptor agonists[1] and it also has neuroprotective efficacy in models of transient and permanent occlusion of the middle cerebral artery and brain edema models[1]. |

Solubility Information

| | |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 2.323 mL | 11.616 mL | 23.232 mL |
| 5 mM | 0.465 mL | 2.323 mL | 4.646 mL |
| 10 mM | 0.232 mL | 1.162 mL | 2.323 mL |
| 50 mM | 0.046 mL | 0.232 mL | 0.465 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. Mauler F, et al. BAY 38-7271: a novel highly selective and highly potent cannabinoid receptor agonist for the treatment of traumatic brain injury. CNS Drug Rev. 2003 Winter;9(4):343-58.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481