Product Data Sheet

Product Name: BAY 38-7271
Cat. No.: GC61778

Chemical Properties

Cas. No.	212188-60-8		
SMILES	O=S(CCCC(F)(F)F)(OC1=CC=CC(OC2=CC=CC3=C2C[C@H](CO)C3)=C1)=O		
Formula	$C_{20}H_{21}F_3O_5S$	M.Wt	430.44
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	BAY 38-7271		

Background

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. BAY 38-7271 has strong neuroprotective properties[1].

BAY 38-7271 shows only minor interactions at the micromolar range with other binding sites such as adenosine A3 receptor (IC50 = 7.5 μM), peripheral GABAA benzodiazepine receptor (IC50 = 971 nM), melatonin ML1 receptor (IC50 = 3.3 μM), and at the monoamine transporter (IC50 = 1.7 μM)[1].

BAY 38-7271 (Ed50 = 0.02 mg/kg; i.v. and 0.5 mg/kg; i.p.) induces a potent and dose-dependent reduction in core body temperature[1].BAY 38-7271 has low physical dependence liability and is not essentially different from that of other cannabinoid CB1 receptor agonists[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 also has neuroprotective efficacy in models of transient and permanent occlusion of the middle cerebral artery and brain edema models[1]. Animal Model: Wistar rat ,TBI rat models (acute subdural hematoma, SDH)[1]

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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[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.

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