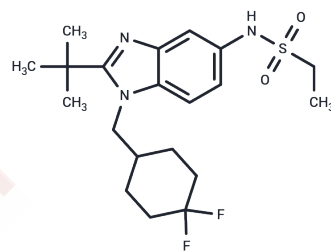


AZD1940

Chemical Properties

CAS No. :	881413-29-2
Formula:	C ₂₀ H ₂₉ F ₂ N ₃ O ₂ S
Molecular Weight:	413.52
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	AZD1940 (UNII-0J0035E9FT) is a high affinity CB(1)/CB(2) receptor agonist of the cannabinoid with oral activity. Application in the study of orofacial pain.
Targets(IC50)	Cannabinoid Receptor
In vitro	AZD1940 demonstrates high binding affinity towards the CB1 and CB2 receptors in humans, rats, and mice, exhibiting full agonism at both receptor types across these species[1].
In vivo	After given orally to human, the mean maximum plasma concentration (Cmax) for AZD1940 800 mg was 9.3 nmol/L . The mean concentration over post-dose eight hours for AZD1940 was 236 nmol.h/L[1].

Solubility Information

Solubility	DMSO: 90 mg/mL (217.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.98 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4183 mL	12.0913 mL	24.1826 mL
5 mM	0.4837 mL	2.4183 mL	4.8365 mL
10 mM	0.2418 mL	1.2091 mL	2.4183 mL
50 mM	0.0484 mL	0.2418 mL	0.4837 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

Schou M, et al. Radiolabeling of the cannabinoid receptor agonist AZD1940 with carbon-11 and PET microdosing in non-human primate. *Nucl Med Biol.* 2013 Apr;40(3):410-4.

Kalliomäki J, et al. Evaluation of the analgesic efficacy and psychoactive effects of AZD1940, a novel peripherally acting cannabinoid agonist, in human capsaicin-induced pain and hyperalgesia. *Clin Exp Pharmacol Physiol.* 2013 Mar;40(3):212-8.

Grossman S, et al. Cannabis and orofacial pain: a systematic review. *Br J Oral Maxillofac Surg.* 2022 Jun;60(5):e677-e690.

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