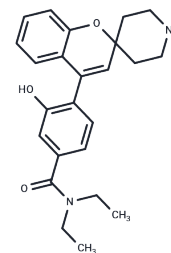


ADL-5747

Chemical Properties

CAS No. : 850176-30-6
 Formula: C₂₄H₂₈N₂O₃
 Molecular Weight: 392.49
 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	ADL-5747 (ADL-5747 (free base)) (free base) is a delta opioid receptor agonist used in the treatment of neurological disorders, skin and musculoskeletal disorders, and may be used in the study of postherpetic neuralgia, knee osteoarthritis and pain.
Targets(IC50)	Opioid Receptor

Solubility Information

Solubility	DMSO: 55 mg/mL (140.13 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	2.5478 mL	12.7392 mL	25.4784 mL
5 mM	0.5096 mL	2.5478 mL	5.0957 mL
10 mM	0.2548 mL	1.2739 mL	2.5478 mL
50 mM	0.051 mL	0.2548 mL	0.5096 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

Spahn V, et al. Targeting delta opioid receptors for pain treatment: drugs in phase I and II clinical development. *Expert Opin Investig Drugs*. 2017 Feb;26(2):155-160.

Nozaki C, et al. δ -Opioid mechanisms for ADL5747 and ADL5859 effects in mice: analgesia, locomotion, and receptor internalization. *J Pharmacol Exp Ther*. 2012 Sep;342(3):799-807.

Le Bourdonnec B, et al. Spirocyclic delta opioid receptor agonists for the treatment of pain: discovery of N,N-diethyl-3-hydroxy-4-(spiro[chromene-2,4'-piperidine]-4-yl) benzamide (ADL5747). *J Med Chem*. 2009 Sep 24;52(18):5685-702.

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