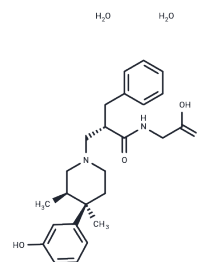


Alvimopan dihydrate (LY246736 dihydrate)

Chemical Properties

CAS No. :	170098-38-1
Formula:	C ₂₅ H ₃₆ N ₂ O ₆
Molecular Weight:	460.56
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	Alvimopan dihydrate (ADL 8-2698 dihydrate) is a potent, selective, orally active, and reversible μ -opioid receptor antagonist with an IC ₅₀ of 1.7 nM. Highly selective for the μ -opioid receptor (K _i = 0.47 nM) over κ - and δ -opioid receptors (K _i s = 100 and 12 nM, respectively), Alvimopan dihydrate can be used for research on postoperative ileus [1] [2] [3].
Targets(IC50)	Others,Opioid Receptor
In vitro	Alvimopan inhibits the binding of loperamide-stimulated [³⁵ S]GTPγS to membranes containing the cloned human μ -opioid receptor with an IC ₅₀ of 1.7 nM [1].
In vivo	Alvimopan (0.1-1.0 mg/kg; p.o.) partially antagonizes the morphine-induced slowing of small intestinal transit of ¹¹³ Sn-labelled microspheres in rats, whereas Alvimopan (3 mg/kg; p.o.) has no effect on noxious colorectal distension (CRD)-induced visceromotor behavioral responses (VMR) in conscious rats [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1713 mL	10.8563 mL	21.7127 mL
5 mM	0.4343 mL	2.1713 mL	4.3425 mL
10 mM	0.2171 mL	1.0856 mL	2.1713 mL
50 mM	0.0434 mL	0.2171 mL	0.4343 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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