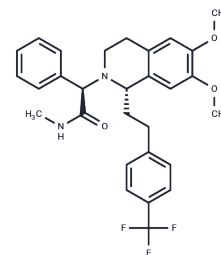


## Almorexant

## Chemical Properties

CAS No. :	871224-64-5
Formula:	C <sub>29</sub> H <sub>31</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	512.56
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	Almorexant (ACT 078573) is a potent and competitive dual orexin 1 receptor (OX1) /orexin 2 receptor (OX2) antagonist with $K_i$ values of 1.3 and 0.17 nM for OX1 and OX2, respectively.
Targets(IC50)	Apoptosis, Calcium Channel, Caspase, OX Receptor

## Solubility Information

Solubility	DMSO: 45 mg/mL (87.79 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: 2 mg/mL (3.9 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	1.951 mL	9.755 mL	19.5099 mL
5 mM	0.3902 mL	1.951 mL	3.902 mL
10 mM	0.1951 mL	0.9755 mL	1.951 mL
50 mM	0.039 mL	0.1951 mL	0.3902 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

Malherbe P, et al. Mol Pharmacol. 2009 Sep;76(3):618-31.

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