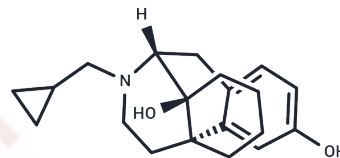


## Oxilorphan

## Chemical Properties

CAS No. :	42281-59-4
Formula:	C <sub>20</sub> H <sub>27</sub> N <sub>O</sub> <sub>2</sub>
Molecular Weight:	313.43
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	Oxilorphan acts as a $\mu$ -opioid receptor (MOR) antagonist but a $\kappa$ -opioid receptor (KOR) partial agonist and has similar effects to naloxone and around the same potency as a MOR antagonist. Oxilorphan has some weak partial agonist actions at the MOR and can produce hallucinogenic/dissociative effects at sufficient doses, indicative of KOR activation. The KOR agonist effects of oxilorphan are associated with dysphoria, which combined with its hallucinogenic effects, serve to limit its clinical usefulness.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1905 mL	15.9525 mL	31.9051 mL
5 mM	0.6381 mL	3.1905 mL	6.381 mL
10 mM	0.3191 mL	1.5953 mL	3.1905 mL
50 mM	0.0638 mL	0.3191 mL	0.6381 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

- Leander JD. Evidence that nalorphine, butorphanol and oxilorphan are partial agonists at a kappa-opioid receptor. *Eur J Pharmacol.* 1983 Jan 21;86(3-4):467-70. PubMed PMID: 6131829.
- Tennant FS Jr, Tate JA, Ruckel E. Clinical trial in post-addicts with oxilorphan (levo-BC-2605): a new narcotic antagonist. *Drug Alcohol Depend.* 1976 Jun;1(5):329-37. PubMed PMID: 13984.
- Sellers EM, Thakur R. Partial agonist properties and toxicity of oral oxilorphan. *J Clin Pharmacol.* 1976 Apr;16(4):183-7. PubMed PMID: 4472.
- Pircio AW, Gylys JA. Oxilorphan (l-N-cyclopropylmethyl-3,14-dihydroxymorphinan): a new synthetic narcotic antagonist. *J Pharmacol Exp Ther.* 1975 Apr;193(1):23-34. PubMed PMID: 237112.

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