

PL-017

## Chemical Properties

CAS No. : 83397-56-2

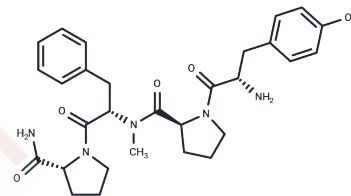
Formula: C<sub>29</sub>H<sub>37</sub>N<sub>5</sub>O<sub>5</sub>

Molecular Weight: 535.64

Keep away from moisture

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	Selective $\mu$ opioid receptor agonist (IC <sub>50</sub> values are 5.5 and > 10000 nM for inhibition of 125I-FK 33,824 and 125I-DADLE binding to $\mu$ and $\delta$ sites respectively). Produces naloxone-reversible analgesia, catalepsy and hyperthermia following central administration in rats in vivo.
Targets(IC <sub>50</sub> )	Opioid Receptor

## Solubility Information

Solubility	H <sub>2</sub> O: 1 mg/mL (1.87 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	1.8669 mL	9.3346 mL	18.6693 mL
5 mM	0.3734 mL	1.8669 mL	3.7339 mL
10 mM	0.1867 mL	0.9335 mL	1.8669 mL
50 mM	0.0373 mL	0.1867 mL	0.3734 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

Chang et al (1983) Potent morphiceptin analogs: structure activity relationships and morphine-like activities. J. Pharmacol.Exp.Ther. 227 403 PMID:

Meyer and Meyer (1993) Behavioral effects of the  $\mu$ -opioid peptide agonists DAMGO, DALDA and PL017 on locomotor activities. Pharmacol.Biochem.Behav. 46 391 PMID:

Xin et al (1997) Body temperature and analgesic effects of selective mu and kappa opioid receptor agonists microdialyzed into rat brain. J.Pharmacol.Exp.Ther. 281 499 PMID:

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