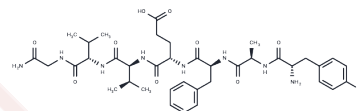


Deltorphin 2

Chemical Properties

CAS No. :	122752-16-3
Formula:	C ₃₈ H ₅₄ N ₈ O ₁₀
Molecular Weight:	782.88
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Deltorphin 2 ([D-Ala ²]-Deltorphin II) is an agonist of δ opioid receptor with an IC ₅₀ of 1 nM.
Targets(IC ₅₀)	Opioid Receptor

Solubility Information

Solubility	DMSO: 45 mg/mL (57.48 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	1.2773 mL	6.3867 mL	12.7733 mL
5 mM	0.2555 mL	1.2773 mL	2.5547 mL
10 mM	0.1277 mL	0.6387 mL	1.2773 mL
50 mM	0.0255 mL	0.1277 mL	0.2555 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

- Thomas S A , Abbruscato T J , Hau V S , et al. Structure-Activity Relationships of a Series of [D-Ala²]Deltorphan I and II Analogues ;[J]. Journal of Pharmacology and Experimental Therapeutics, 1997, 281(2):817-825.
- Kan B F, Liu X Y, Han M M, et al. The NGF/TrKA pathway enhances analgesia in an experimental mice model of bone cancer pain by increasing membrane levels of δ -opioid receptors. Anesthesiology. 2023:10-1097
- Willemsse T, et al. Chemical space screening around Phe³ in opioid peptides: Modulating μ versus δ agonism by Suzuki-Miyaura cross-couplings. Bioorg Med Chem Lett. 2018 Jul 15;28(13):2320-2323. doi: 10.1016/j.bmcl.2018.05.015. Epub 2018 May 12. Erratum in: Bioorg Med Chem Lett. 2018 Nov 1;28(20):3418.

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