

Dynorphin A (1-8)

Chemical Properties

CAS No. : 75790-53-3

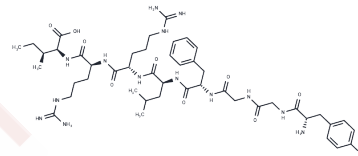
Formula: C₄₆H₇₂N₁₄O₁₀

Molecular Weight: 981.15

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	Dynorphin (1-8) is an opioid octapeptide from the porcine hypothalamus. It comprises the N-terminal eight residues of dynorphin.
Targets(IC50)	Opioid Receptor, Endogenous Metabolite

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0192 mL	5.0961 mL	10.1921 mL
5 mM	0.2038 mL	1.0192 mL	2.0384 mL
10 mM	0.1019 mL	0.5096 mL	1.0192 mL
50 mM	0.0204 mL	0.1019 mL	0.2038 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

Al-Hossaini AM, Suntornsuk L, Lunte SM. Separation of dynorphin peptides by capillary electrochromatography using a polydiallyldimethylammonium chloride gold nanoparticle-modified capillary. *Electrophoresis*. 2016 Sep; 37(17-18):2297-304. doi: 10.1002/elps.201600006. Epub 2016 Jun 16. PubMed PMID: 27130293; PubMed Central PMCID: PMC5283704.

Brust A, Croker DE, Colless B, Ragnarsson L, Andersson Å, Jain K, Garcia-Caraballo S, Castro J, Brierley SM, Alewood PF, Lewis RJ. Conopeptide-Derived κ -Opioid Agonists (Conorphins): Potent, Selective, and Metabolic Stable Dynorphin A Mimetics with Antinociceptive Properties. *J Med Chem*. 2016 Mar 24;59(6):2381-95. doi: 10.1021/acs.jmedchem.5b00911. Epub 2016 Feb 22. PubMed PMID: 26859603.

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Caldwell AS, Eid S, Kay CR, Jimenez M, McMahon AC, Desai R, Allan CM, Smith JT, Handelsman DJ, Walters KA. Haplosufficient genomic androgen receptor signaling is adequate to protect female mice from induction of polycystic ovary syndrome features by prenatal hyperandrogenization. *Endocrinology*. 2015 Apr;156(4):1441-52. doi: 10.1210/en.2014-1887. Epub 2015 Feb 2. PubMed PMID: 25643156.

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