

[Leu5]-Enkephalin acetate(58822-25-6 free base)

Chemical Properties

CAS No. :

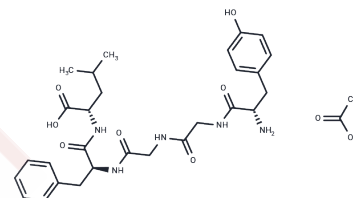
Formula: C30H41N5O9

Molecular Weight: 615.68

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	[Leu5]-Enkephalin acetate(58822-25-6 free base) is an endogenous neuropeptide involved in nociception and an agonist of δ -opioid and μ -opioid receptors ($K_{is} = 4.0$ and 3.4 nM, respectively)
Targets(IC50)	Opioid Receptor, Endogenous Metabolite
In vivo	[Leu5]-Enkephalin is found in the brain, the brainstem, and the spinal cord as well as in the peripheral nervous system. Leu-Enkephalin (1 mg/kg) decreases the visceromotor response to colon distension in a mouse model of visceral pain induced by colorectal distension[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6242 mL	8.1211 mL	16.2422 mL
5 mM	0.3248 mL	1.6242 mL	3.2484 mL
10 mM	0.1624 mL	0.8121 mL	1.6242 mL
50 mM	0.0325 mL	0.1624 mL	0.3248 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

Fabisiak A , Małgorzata Sobocińska, Elżbieta Kamysz, et al. Antinociceptive potency of enkephalins and enkephalinase inhibitors in the mouse model of colorectal distension - proof of concept[J]. Chemical Biology & Drug Design, 2018, 92(1).

Meunier J C , Moisan C . Binding of leu5-enkephalin and met5-enkephalin to a particulate fraction from rat cerebrum[J]. Febs Letters, 1977, 77(2):0-213.

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