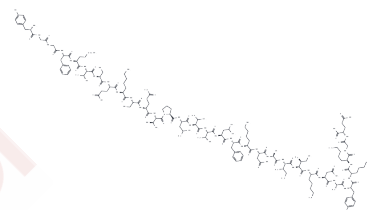


β -Endorphin, human

Chemical Properties

CAS No. :	61214-51-5
Formula:	C158H251N39O46S
Molecular Weight:	3464.98
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	β -Endorphin, human, a prominent endogenous peptide found in the hypophysis cerebri and hypothalamus, is an agonist of [opioid receptor].
Targets(IC50)	Others,Opioid Receptor
In vitro	β -Endorphin, human is an opioid receptor agonist, with preferred affinity for μ -opioid receptor and δ -opioid receptor. β -Endorphin exhibits anti-nociception activity by stimulating ϵ -opioid receptor, rather than μ -, δ -, and κ -opioid receptor[1]. β -Endorphin has anti-nociception activity. β -Endorphin inhibits the conduction of pain and agitation of nociceptors to exert an analgesic effect[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2886 mL	1.443 mL	2.886 mL
5 mM	0.0577 mL	0.2886 mL	0.5772 mL
10 mM	0.0289 mL	0.1443 mL	0.2886 mL
50 mM	0.0058 mL	0.0289 mL	0.0577 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

- Narita M, et al. Evidence for the existence of the beta-endorphin-sensitive "epsilon-opioid receptor" in the brain: the mechanisms of epsilon-mediated antinociception. Jpn J Pharmacol. 1998 Mar;76(3):233-53.
- Luan YH, et al. Action of β -endorphin and nonsteroidal anti-inflammatory drugs, and the possible effects of nonsteroidal anti-inflammatory drugs on β -endorphin. J Clin Anesth. 2017 Feb;37:123-128.

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