

$\beta$ -Endorphin (1-27) (human) acetate

## Chemical Properties

CAS No. :

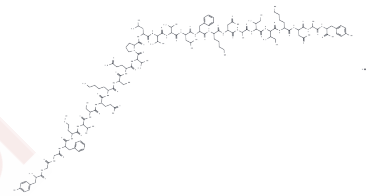
Formula: C141H221N33O42S

Molecular Weight: 3082.52

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	$\beta$ -Endorphin (1-27) (human) acetate, existing in the hypophysis cerebri and hypothalamus, exhibits antinociception activity. $\beta$ -Endorphin (1-27) (human) acetate is an agonist of opioid receptor, showing preferred affinity for $\mu$ -opioid receptor and $\delta$ -opioid
Targets(IC50)	Opioid Receptor
In vitro	$\beta$ -Endorphin (1-27) (human) acetate inhibits the conduction of pain and agitation of nociceptors to exert an analgesic effect. $\beta$ -Endorphin (1-27) (human) acetate combines together with the opioid receptors in hyperalgesia. $\beta$ -Endorphin (1-27) (human) acetate suppresses the release of substance P at the level of spinal cord and blocks the conduction of pain on the primary sensory neurons. $\beta$ -Endorphin (1-27) (human) acetate activates the endogenous analgesia system located in the CNS[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3244 mL	1.622 mL	3.2441 mL
5 mM	0.0649 mL	0.3244 mL	0.6488 mL
10 mM	0.0324 mL	0.1622 mL	0.3244 mL
50 mM	0.0065 mL	0.0324 mL	0.0649 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

Luan YH, et al. Action of  $\beta$ -endorphin and nonsteroidal anti-inflammatory drugs, and the possible effects of nonsteroidal anti-inflammatory drugs on  $\beta$ -endorphin. J Clin Anesth. 2017 Feb;37:123-128.

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.

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