

Dynorphin (2-17), amide, porcine

Chemical Properties

CAS No. :

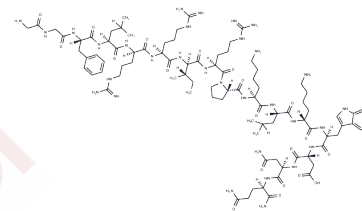
Formula: C₉₀H₁₄₇N₃₁O₂₀

Molecular Weight: 1983.33

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	Dynorphins are a class of opioid peptides that arise from the precursor protein prodynorphin. When prodynorphin is cleaved during processing by proprotein convertase 2 (PC2), multiple active peptides are released: dynorphin A, dynorphin B, and α/β -neo-endorphin [1].
Targets(IC50)	Others
In vitro	Dynorphin is produced in many different parts of the brain, including the hypothalamus, the striatum, the hippocampus, and the spinal cord. Dynorphin has been shown to be a modulator of pain response. Injecting dynorphin into the subarachnoid space of the rat spinal cord produced dose-dependent analgesia that was measured by tail-flick latency. Analgesia was partially eliminated by opioid antagonist naloxone. Dynorphin activates bradykinin receptors, which triggers the release of calcium ions into the cell through voltage-sensitive channels in the cell membrane. Blocking bradykinin receptors in the lumbar region of the spinal cord reversed persistent pain. A multiple pathway system might help explain the conflicting effects of dynorphin in the CNS [3].

Solubility Information

Solubility	DMSO: ≥ 198.3 mg/mL, 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	0.5042 mL	2.521 mL	5.042 mL
5 mM	0.1008 mL	0.5042 mL	1.0084 mL
10 mM	0.0504 mL	0.2521 mL	0.5042 mL
50 mM	0.0101 mL	0.0504 mL	0.1008 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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