

parathyroid hormone (7-34) [Homo sapiens]/[Macaca fascicularis]

Chemical Properties

CAS No. :

Formula: C154H246N48O40S2

Molecular Weight: 3474.03

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	parathyroid hormone (7-34) [Homo sapiens] [Macaca fascicularis] is a peptide with the sequence H2N-LMHNLGKHLNSMERVEWLRKKLQDVHNF-OH, MW= 3474.03. Parathyroid hormone (PTH) is secreted by the chief cells of the parathyroid glands as a polypeptide containing 84 amino acids. It acts to increase the concentration of calcium (Ca ²⁺) in the blood, PTH acts to increase the concentration of calcium in the blood by acting upon the parathyroid hormone 1 receptor and the parathyroid hormone 2 receptor.
Targets(IC50)	Others
In vitro	PTH reduces the reabsorption of phosphate from the proximal tubule of the kidney, which means more phosphate is excreted through the urine. PTH enhances the uptake of phosphate from the intestine and bones into the blood. In the bone, slightly more calcium than phosphate is released from the breakdown of bone. In the intestines, absorption of both Calcium and Phosphate is mediated by an increase in activated vitamin D [1][2].

Solubility Information

Solubility	DMSO: ≥347.4 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	0.2879 mL	1.4393 mL	2.8785 mL
5 mM	0.0576 mL	0.2879 mL	0.5757 mL
10 mM	0.0288 mL	0.1439 mL	0.2879 mL
50 mM	0.0058 mL	0.0288 mL	0.0576 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

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