

Human PTHrP-(1-36)

Chemical Properties

CAS No. :	172867-62-8
Formula:	C191H305N59O52
Molecular Weight:	4259.83
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Human PTHrP-(1-36) is a secreted parathyroid hormone-related protein with anticalciuric effects, promoting beta cell function and proliferation, and is used in research on humoral hypercalcemia of malignancy (HHM) and hyperparathyroidism [1] [3].
Targets(IC50)	Thyroid hormone receptor(THR)
In vitro	Human PTHrP-(1-36), with an EC50 of 0.05 nM, augments intracellular calcium levels in human epidermal keratinocytes [2]. At a concentration of 100 nM over 24 hours, it stimulates proliferation in human β -cells [3]. Similarly, when applied at 100 nM for 30 minutes, PTHrP-(1-36) boosts insulin secretion in human islets [3]. In mice, PTHrP-(1-36) elicits a swift Ca ²⁺ response in UMR 106 cells at an EC50 of 1 nM [4].
In vivo	PTHrP-(1-36) (mouse, 160 μ g/kg, subcutaneously, 5 days weekly for 7, 30, or 90 days) promotes beta cell regeneration and augments beta cell mass following partial pancreatectomy in mice [5]. Additionally, PTHrP-(1-36) (mouse, 100 μ g/kg, subcutaneously, administered biweekly) counteracts the reduced Wisp1 expression in diabetic mouse models [6].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2348 mL	1.1738 mL	2.3475 mL
5 mM	0.047 mL	0.2348 mL	0.4695 mL
10 mM	0.0235 mL	0.1174 mL	0.2348 mL
50 mM	0.0047 mL	0.0235 mL	0.047 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481