

Parathyroid Hormone (1-34), bovine

Chemical Properties

CAS No. :	12583-68-5
Formula:	C183H288N54O50S2
Molecular Weight:	4104.39
Storage:	Store under nitrogen, Keep away from direct sunlight, 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	Parathyroid Hormone (1-34), bovine, a parathyroid hormone (PTH) receptor agonist from the parathyroid hormone family, is used to study osteoporosis and hypoparathyroidism.
Targets(IC50)	Thyroid hormone receptor(THR)
In vitro	In MC3T3-E1 cells, parathyroid hormone (1-34), bovine (0.1-100 ng/m L; 2 ~ 20 days) decreased osteoblast proliferation in a concentration-dependent manner[1].

Solubility Information

Solubility	H2O: H2O: 30 mg/mL (7.30 mM),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	0.2436 mL	1.2182 mL	2.4364 mL
5 mM	0.0487 mL	0.2436 mL	0.4873 mL
10 mM	0.0244 mL	0.1218 mL	0.2436 mL
50 mM	0.0049 mL	0.0244 mL	0.0487 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

B H Mitlak, et al. Intermittent administration of bovine PTH-(1-34) increases serum 1,25-dihydroxyvitamin D concentrations and spinal bone density in senile (23 month) rats. J Bone Miner Res. 1992 May;7(5):479-84.

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