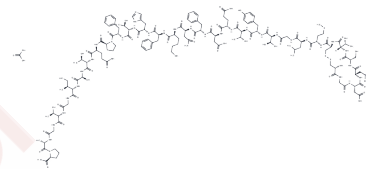


## Calcitonin (human) acetate

## Chemical Properties

CAS No. :	56612-20-5
Formula:	C153H230N40O47S3
Molecular Weight:	3477.91
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	Calcitonin (human) acetate (21215-62-3, free base) is a synthetic polypeptide hormone composed of 32 amino acids. As an endogenous calcitonin receptor agonist, it inhibits bone resorption and lowers serum calcium levels. It is commonly used in the study of the mechanisms underlying osteoporosis, hypercalcemia, and Paget's disease of bone.
Targets(IC50)	CGRP Receptor
In vitro	Calcitonin (human) acetate (21215-62-3, free base) potently inhibits osteoclast-mediated bone resorption. [1]
In vivo	Oral administration of Calcitonin (human) acetate (2 mg/kg) to female Sprague-Dawley rats once daily for 9 weeks inhibits cartilage degeneration and prevents cartilage erosion.[2]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2875 mL	1.4376 mL	2.8753 mL
5 mM	0.0575 mL	0.2875 mL	0.5751 mL
10 mM	0.0288 mL	0.1438 mL	0.2875 mL
50 mM	0.0058 mL	0.0288 mL	0.0575 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

Sexton PM, Findlay DM, Martin TJ. Calcitonin. *Curr Med Chem*. 1999 Nov;6(11):1067-93.

Sondergaard BC, Oestergaard S, Christiansen C, Tankó LB, Karsdal MA. The effect of oral calcitonin on cartilage turnover and surface erosion in an ovariectomized rat model. *Arthritis Rheum*. 2007 Aug;56(8):2674-8.

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