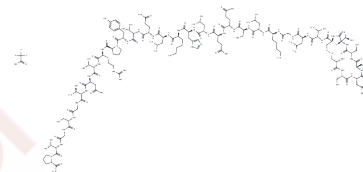


Calcitonin (salmon) (trifluoroacetate salt)

Chemical Properties

CAS No. :	171052-37-2
Formula:	C147H241F3N44O50S2
Molecular Weight:	3545.88
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	Calcitonin is a peptide hormone that lowers blood calcium level and inhibits bone resorption. It belongs to the calcitonin family of peptides, which also includes amylin , calcitonin gene-related peptide , and adrenomedullin. The binding of salmon calcitonin to the human calcitonin receptor (CTR) is not modulated by receptor activity-modifying proteins (RAMPs), which influence affinity of human calcitonin to CTR. Salmon calcitonin binds to human CTR2 with IC50 values of 0.933, 0.224, 0.134, and 0.317 nM alone and with RAMP1, 2, or 3, respectively. It induces cAMP accumulation in COS-7 cells transfected with CTR2 (EC50 = 0.166 nM). Salmon calcitonin inhibits bone resorption by osteoclasts in a pit formation assay using rat bone slices (ID50 = 0.003 pg/mL) and lowers calcium level in vivo in a bioassay of hypocalcemia in rats (ED15 = 33.9 mg/kg). Formulations containing salmon calcitonin have been used to treat hypercalcemia, bone destruction by osteoporosis, and Paget's disease.
Targets(IC50)	Others

Solubility Information

Solubility	H2O: 1 mg/mL (0.28 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	0.282 mL	1.4101 mL	2.8202 mL
5 mM	0.0564 mL	0.282 mL	0.564 mL
10 mM	0.0282 mL	0.141 mL	0.282 mL
50 mM	0.0056 mL	0.0282 mL	0.0564 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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