

Calcitonin eel acetate

Chemical Properties

CAS No. :

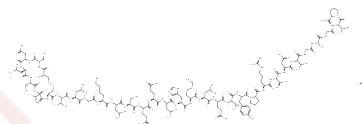
Formula: C148H245N43O49S2

Molecular Weight: 3474.96

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	Calcitonin eel acetate (Calcitonin eel acetate (57014-02-5 Free base)) is the regulation of calcium homeostasis thyroid hormone peptide.
Targets(IC50)	Others
In vitro	Eel calcitonin and its analog were always more potent than salmon calcitonin, but the efficacy of the three polypeptides was comparable. In cultured anterior pituitary cells, the inhibitory effect on phosphoinositide hydrolysis observed after chronic treatment with calcitonin was accompanied by a reduction of prolactin release. In contrast, a single treatment of cultured anterior pituitary cells with eel calcitonin or its analog eel calcitonin induced an increase of inositol phosphate accumulation, while salmon calcitonin was inactive. Accordingly, eel and eel calcitonin, but not salmon calcitonin, induced a slight but significant stimulation of prolactin secretion[1].

Solubility Information

Solubility	H2O: 100 mg/mL (28.78 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2878 mL	1.4389 mL	2.8777 mL
5 mM	0.0576 mL	0.2878 mL	0.5755 mL
10 mM	0.0288 mL	0.1439 mL	0.2878 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.

Reference

Sortino M A , Aleppo G , Scapagnini U , et al. Comparative effects of eel calcitonin, salmon calcitonin and [Asu1,7] eel calcitonin on hypophyseal and osteoblastic function.[J]. Gynecological Endocrinology, 1993, 7(2):89-96.

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