

Data Sheet (Cat.No.TP1040)

Calcitonin salmon

Chemical Properties

CAS No.:	47931-85-1
Formula:	C145H240N44O48S2
Molecular Weight:	3431.85
Appearance:	powder
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Calcitonin salmon, a calcium regulating hormone, is used to treat osteoporosis in women who are at least 5 years past menopause.
Targets(IC ₅₀)	calcitonin receptor;amylin: None
In vivo	Oral Calcitonin salmon treatment dose-dependently attenuates fasting and non-fasted hyperglycaemia during the intervention period. At the end of the study period, oral Calcitonin salmon treatment by dose decreases diabetic hyperglycaemia by ~9 mM and reduces HbA1c levels by 1.7%. Furthermore, a pronounced reduction in glucose excursions is dose-dependently observed for oral Calcitonin salmon treatment during oral glucose tolerance test. In addition, oral Calcitonin salmon treatment sustains hyperinsuliemia and attenuates hyperglucagoemia and hypersecretion of total glucagon-like peptide-1 predomintly in the basal state. Lastly, oral Calcitonin salmon treatment dose-dependently improves pancreatic beta-cell function and beta-cell area at study end[1].

Solubility Information

Solubility	H2O: 50 mg/mL (14.57 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.291 mL	1.457 mL	2.914 mL
5 mM	0.058 mL	0.291 mL	0.583 mL
10 mM	0.029 mL	0.146 mL	0.291 mL
50 mM	0.006 mL	0.029 mL	0.058 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Feigh M, et al. Oral salmon calcitonin attenuates hyperglycaemia and preserves pancreatic beta-cell area and function in Zucker diabetic fatty rats. Br J Pharmacol. 2012 Sep;167(1):151-63.

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