

## Calcitonin(salmon) Acetate(47931-85-1(free base))

## Chemical Properties

CAS No. :

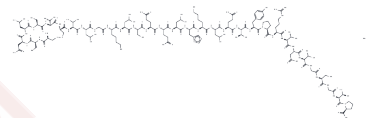
Formula: C147H243N44O50S2

Molecular Weight: 3490.94

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(salmon)Acetate(47931-85-1(free base))(Salmon calcitonin) , a calcium regulating hormone, is used to treat osteoporosis in women who are at least 5 years past menopause.
Targets(IC50)	CGRP Receptor
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 hyperinsulinaemia and attenuates hyperglucagonaemia and hypersecretion of total glucagon-like peptide-1 predominantly 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	DMSO: 5 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	0.2865 mL	1.4323 mL	2.8646 mL
5 mM	0.0573 mL	0.2865 mL	0.5729 mL
10 mM	0.0286 mL	0.1432 mL	0.2865 mL
50 mM	0.0057 mL	0.0286 mL	0.0573 mL

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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

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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