

## Calcitonin, eel

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No.:          | 57014-02-5   |
| Formula:          | C <sub>146</sub> H <sub>241</sub> N <sub>43</sub> O <sub>47</sub> S <sub>2</sub> |
| Molecular Weight: | 3414.91  |
| Appearance:       | N/A  |
| Storage:          | 0-4°C for short term (days to weeks), or -20°C for long term (months).           |

## Biological Description

|             |   |
|-------------|---|
| Description | Calcitonin, eel is the thyroid hormone peptide that contributes to the regulation of calcium homeostasis, widely used in the research of postmenopausal osteoporosis.   |
| In vitro    | Calcitonin, eel effectively induces a concentration-dependent stimulation of phosphoinositide hydrolysis and stimulates prolactin release compared to salmon calcitonin in cultured anterior pituitary cells. However, Calcitonin, eel is ictive on the inhibition of prolactin release under thyrotropin releasing hormone (TRH) stimulated conditions[1]. |

## Solubility Information

|            |  |
|------------|--|
| Solubility | H <sub>2</sub> O: Soluble<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg      | 5mg      | 10mg     |
|-------|----------|----------|----------|
| 1 mM  | 0.293 mL | 1.464 mL | 2.928 mL |
| 5 mM  | 0.059 mL | 0.293 mL | 0.586 mL |
| 10 mM | 0.029 mL | 0.146 mL | 0.293 mL |
| 50 mM | 0.006 mL | 0.029 mL | 0.059 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. Sortino MA, et al. Comparative effects of eel calcitonin, salmon calcitonin and [Asu1,7]eel calcitonin on hypophyseal and osteoblastic function. Gynecol Endocrinol. 1993 Jun;7(2):89-96.

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