

## Calcitonin, eel TFA

|                             |   |       |          |
|-----------------------------|---|-------|----------|
| <b>Cat. No.:</b>            | HY-P1463A   |       |          |
| <b>Molecular Formula:</b>   | C <sub>148</sub> H <sub>242</sub> F <sub>3</sub> N <sub>43</sub> O <sub>49</sub> S <sub>2</sub>   |       |          |
| <b>Molecular Weight:</b>    | 3528.89   |       |          |
| <b>Sequence:</b>            | Cys-Ser-Asn-Leu-Ser-Thr-Cys-Val-Leu-Gly-Lys-Leu-Ser-Gln-Glu-Leu-His-Lys-Leu-Gln-Thr-Tyr-Pro-Arg-Thr-Asp-Val-Gly-Ala-Gly-Thr-Pro-NH <sub>2</sub> (Disulfide bridge: Cys1-Cys7) |       |          |
| <b>Sequence Shortening:</b> | CSNLSTCVLKGKLSQELHKLQTYPRTDVGAGTP-NH <sub>2</sub> (Disulfide bridge: Cys1-Cys7)   |       |          |
| <b>Target:</b>              | Others  |       |          |
| <b>Pathway:</b>             | Others  |       |          |
| <b>Storage:</b>             | Powder  | -80°C | 2 years  |
|                             |   | -20°C | 1 year   |
|                             | In solvent  | -80°C | 6 months |
|                             |   | -20°C | 1 month  |

CSNLSTCVLKGKLSQELHKLQTYPRTDVGAGTP-NH<sub>2</sub> (Disulfide bridge: Cys1-Cys7)



### BIOLOGICAL ACTIVITY

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

### REFERENCES

[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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA