

Elcatonin

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| Cat. No.: | HY-P0007 |
| CAS No.: | 60731-46-6 |
| Molecular Formula: | C ₁₄₈ H ₂₄₄ N ₄₂ O ₄₇ |
| Molecular Weight: | 3363.77 |
| Sequence: | Ser-Asn-Leu-Ser-Thr-Asu-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 ₂ (Lactam bridge: Ser1-Asu6) |
| Sequence Shortening: | SNLST{Asu}VLGKLSQELHKLQTYPRTDVGAGTP-NH ₂ (Lactam bridge: Ser1-Asu6) |
| Target: | Others |
| Pathway: | Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |

BIOLOGICAL ACTIVITY

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| Description | Elcatonin (Carbocalcitonin) is a synthetic analog of eel calcitonin. Elcatonin increases bone mineral density, inhibits bone resorption and processes a central analgesic effect ^[1] . | |
| In Vivo | Elcatonin (Carbocalcitonin) (20 U/kg; s.c.; 2 d after oxaliplatin administration) attenuates oxaliplatin-induced cold and mechanical allodynia in rats ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | |
| | Animal Model: | Male Sprague-Dawley rats weighing 150-250 g (Oxaliplatin-Induced Allodynia Models) ^[1] |
| | Dosage: | 20 U/kg |
| | Administration: | Subcutaneously; 2 d after oxaliplatin administration |
| | Result: | Attenuated oxaliplatin-induced cold in rtas. |

REFERENCES

[1]. Knopp JA, et al. Calcitonin for treating acute pain of osteoporotic vertebral compression fractures: a systematic review of randomized, controlled trials. *Osteoporos Int.* 2005;16(10):1281-1290.

[2]. Aoki M, et al. Comparison of the effects of single doses of elcatonin and pregabalin on oxaliplatin-induced cold and mechanical allodynia in rats. *Biol Pharm Bull.* 2014;37(2):322-326.

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

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