Product Data Sheet



β-Endorphin (6-31), human

| Cat. No.: | HY-P3517 | |
|----------------------|---|--|
| CAS No.: | 77761-27-4 | |
| Molecular Formula: | C ₁₃₁ H ₂₁₈ N ₃₄ O ₄₀ | |
| Molecular Weight: | 2909.38 | |
| Sequence: | Thr-Ser-Glu-Lys-Ser-Gln-Thr-Pro-Leu-Val-Thr-Leu-Phe-Lys-Asn-Ala-Ile-Ile-Lys-Asn-Ala- Tyr-Lys-Lys-Gly-Glu | |
| Sequence Shortening: | TSEKSQTPLVTLFKNAIIKNAYKKGE | |
| Target: | Opioid Receptor | |
| Pathway: | GPCR/G Protein; Neuronal Signaling | |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. | |

| BIOLOGICAL ACTIVITY | | | |
|---------------------|--|---|--|
| Description | β-Endorphin, an endogenous opioid neuropeptide, is an opioid receptor agonist. β-Endorphin binds preferentially to μ- opioid receptors and is produced in certain neurons of the central and peripheral nervous system and is one of three endorphins produced in humans. β-Endorphin can be used to reduce stress and maintain homeostasis in the body and is involved in neurological pain perception regulation ^[1] . | | |
| In Vivo | manner in male Swiss n | D0 μg/kg, i.p., once) impairs retention of a one-trial inhibitory avoidance task in a dose-dependent nice immediately post-training. Also, it works in the process of memory consolidation ^[1] . Intly confirmed the accuracy of these methods. They are for reference only. Adult male Swiss mice (22-25 g) ^[1] 0.03, 0.10, 0.30 or 1.00 µg/kg i.p., once | |
| | Result: | Significantly impaired retention at the doses of 0.03 and 0.10 μ g/kg while not significantly affect retention as compared with the control group at the two higher doses of 0.30 and 1.00 μ g/kg, but tended to increase retention as compared with the dose of 0.10 μ g/kg. Increased latencies to step-through at the two higher doses of 0.30 and 1.00 μ g/kg but no effect at lower doses. | |

REFERENCES

[1]. Introini IB, et al. The impairment of retention induced by beta-endorphin in mice may be mediated by a reduction of central cholinergic activity. Behav Neural Biol. 1984 Jul;41(2):152-63.

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