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PRODUCT INFORMATION

β-Endorphin (1-26) (human) (trifluoroacetate salt)

Item No. 24956

MF: $C_{130}H_{208}N_{32}O_{38}S \bullet XCF_3COOH$
FW: 2,859.3
Purity: ≥95%
Supplied as: A lyophilized powder
Storage: -20°C
Stability: ≥2 years

H–Tyr–Gly–Gly–Phe–Met–Thr–Ser–Glu–Lys–Ser–
Gln–Thr–Pro–Leu–Val–Thr–Leu–Phe–Lys–Asn–
Ala–Ile–Ile–Lys–Asn–Ala–OH
• XCF_3COOH

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

β-Endorphin (1-26) (human) (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the β-endorphin (1-26) (human) (trifluoroacetate salt) in water. The solubility of β-endorphin (1-26) (human) (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

β-Endorphin (1-26) is a neuropeptide found in rat hippocampus, brain stem, and pituitary.[1] It is also present in the human hypothalamus, where it comprises approximately 13.1% of total β-endorphin.[2] β-endorphin (1-26) is an opioid receptor agonist that inhibits potassium-induced norepinephrine (NE) release in rat cortical slices (IC_{50} = 2.5 nM).[3] It reverses inhibition of potassium-induced NE release from rat cortical slices induced by the opioid antagonists naloxone (Item No. 15594), CTOP, norbinaltorphimine (nor-BNI), and naltrindole (Item No. 9000705; pA_2s = 7.59-8.63). *In vivo*, β-endorphin (1-26) (10 µg, i.c.v.) induces transient bradycardia in anesthetized rats.[4] Intracerebroventricular administration of β-endorphin (1-26) increases the latency to tail withdrawal in response to thermal stimulation in mice with a median antinociceptive dose (AD_{50}) of 1.57 µg per animal.[5]

References

1. Smyth, D.G. and Zakarian, S. β-Endorphin in brain. *Prog. Brain Res.* **55**, 123-132 (1982).
2. Millington, W.R. and Smith, D.L. The posttranslational processing of β-endorphin in human hypothalamus. *J. Neurochem.* **57(3)**, 775-781 (1991).
3. Kim, K.W. and Cox, B.M. Inhibition of norepinephrine release from rat cortex slices by opioids: Differences among agonists in sensitivities to antagonists suggest receptor heterogeneity. *J. Pharmacol. Exp. Ther.* **267(3)**, 1153-1160 (1993).
4. van Giersbergen, P.L., de Lang, H., and de Jong, W. Effects of dynorphin A(1-13) and of fragments of β-endorphin on blood pressure and heart rate of anesthetized rats. *Can. J. Physiol. Pharmacol.* **69(3)**, 327-333 (1991).
5. Li, C.H., Tseng, L.F., and Yamashiro, D. β-Endorphin: Complete primary structure is required for full analgesic activity. *Biochem. Biophys. Res. Commun.* **85(2)**, 795-800 (1978).

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