

β-Endorphin (1-27) (human)

Cat. No.:	HY-P5892
CAS No.:	76622-84-9
Molecular Formula:	C ₁₃₉ H ₂₁₇ N ₃₃ O ₄₀ S
Molecular Weight:	3022.47
Sequence:	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-Tyr
Sequence Shortening:	YGGFMTSEKSQTPLVTLFKNAIIKNAY
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 (1-27) (human) is an opioid antagonist that binds μ-, δ-, and κ-opioid receptors with K _i s of 5.31, 6.17, and 39.82 nM, respectively. β-Endorphin (1-27) (human) inhibits β-Endorphin (HY-P1502)-induced and etorphine-induced analgesia ^[1] [2].
IC ₅₀ & Target	Ki: 5.31 nM (μ-opioid receptor), 6.17 nM (δ-opioid receptor), 39.82 nM (κ-opioid receptor) ^[1]

REFERENCES

[1]. Mansour A, et al. The cloned mu, delta and kappa receptors and their endogenous ligands: evidence for two opioid peptide recognition cores. Brain Res. 1995 Nov 27;700(1-2):89-98.

[2]. Nicolas P, et al. Beta-endorphin-(1-27) is a naturally occurring antagonist to etorphine-induced analgesia. Proc Natl Acad Sci U S A. 1985 May;82(10):3178-81.

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

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