



LKT Laboratories, Inc.

Endomorphin-1

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Product Information

Product ID E5210

CAS No. 189388-22-5

Chemical Name

Synonym

Formula $C_{34}H_{38}N_6O_5$

Formula Wt. 610.72

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water (0.6 mg/mL), DMSO.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Endomorphin-1 is an endogenous agonist at μ -opioid receptors (μ ORs) in the spinal cord; it exhibits antinociceptive/analgesic, immunosuppressive, and pro-angiogenic activities. Endomorphin-1 increases pain thresholds in animal models of thermal pain and inhibits the formation of antibodies in other cellular models. In HUVECs, this peptide stimulates proliferation, migration, adhesion, and tube formation.

H-Tyr-Pro-Trp-Phe-NH₂

Bulk quantities available upon request

Product ID	Size
E5210	5 mg
E5210	10 mg
E5210	25 mg

References Dai X, Song HJ, Cui SG, et al. The stimulative effects of endogenous opioids on endothelial cell proliferation, migration and angiogenesis in vitro. *Eur J Pharmacol.* 2010 Feb 25;628(1-3):42-50. PMID: 19932695.

Anton B, Leff P, Calva JC, et al. Endomorphin 1 and endomorphin 2 suppress in vitro antibody formation at ultra-low concentrations: anti-peptide antibodies but not opioid antagonists block the activity. *Brain Behav Immun.* 2008 Aug;22(6):824-32. PMID: 18374539.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.