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Product Information

Product ID E5211

CAS No. 141801-26-5

Chemical Name

Synonym

Formula C₃₂H₃₇N₅O₅ Formula Wt. 571.68

Melting Point

Purity ≥95%

Solubility Soluble in water (0.4

mg/mL).

H-Tyr-Pro-Phe-Phe-NH₂

Bulk quanitites available upon request

| Product ID | Size |
|------------|-------|
| E5211 | 5 mg |
| E5211 | 10 mg |
| E5211 | 25 mg |

Store Temp -20°C Ship Temp Ambient

Description Endomorphin-2 is an endogenous agonist at μ-opioid receptors (μORs) in the spinal cord; it exhibits antinociceptive/analgesic, immunosuppressive, and pro-angiogenic activities. Endomorphin-2 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.

References Liu NJ, Gintzler AR. Spinal endomorphin 2 antinociception and the mechanisms that produce it are both sex- and stage of estrus cycle-dependent in rats. J Pain. 2013 Nov;14(11):1522-30. PMID: 24084000.

> 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.