



LKT Laboratories, Inc.

Dermorphin Analog

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Product Information

Product ID D1770

CAS No.

Chemical Name

Synonym

Formula C₄₄H₅₉N₁₁O₁₀

Formula Wt. 902.03

Melting Point

Purity ≥95%

Solubility Soluble in water.

H-Tyr-D-Arg-Phe-Sar-Tyr-Pro-Ser-NH₂

| Product ID | Size |
|------------|-------|
| D1770 | 5 mg |
| D1770 | 10 mg |
| D1770 | 25 mg |

Store Temp -20° C

Ship Temp Ambient

Description This synthetic peptide analog of dermorphin activates μ -opioid receptors (μ ORs) and δ -opioid receptors (δ ORs). Like other similar opioid agonists, this peptide affects learning and memory as well as motor activity and exhibits neuromodulatory and antinociceptive/analgesic activities.

References Vonhof S, Barone FC, Price WJ, et al. Receptor binding and biological activity of the dermorphin analog Tyr-D-Arg(2)-Phe-Sar (TAPS). *Eur J Pharmacol.* 2001 Mar 23;416(1-2):83-93. PMID: 11282116.

Ukai M, Kobayashi T, Mori K, et al. Attenuation of memory with Tyr-D-Arg-Phe-beta-Ala-NH₂, a novel dermorphin analog with high affinity for mu-opioid receptors. *Eur J Pharmacol.* 1995 Dec 20;287(3):245-9. PMID: 8991797.

Paakkari P, Paakkari I, Vonhof S, et al. Dermorphin analog Tyr-D-Arg²-Phe-sarcosine-induced opioid analgesia and respiratory stimulation: the role of mu 1-receptors? *J Pharmacol Exp Ther.* 1993 Aug;266(2):544-50. PMID: 8394909.

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