



LKT Laboratories, Inc.

Adrenorphin

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Product Information

Product ID A1371

CAS No. 88377-68-8

Chemical Name

Synonym Metorphamide

Formula $C_{44}H_{62}N_{15}O_5S$

Formula Wt. 984.2

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water.

H-Tyr-Gly-Gly-Phe-Met-Arg-Arg-Val-NH₂

Bulk quantities available upon request

Product ID	Size
A1371	1 mg
A1371	2 mg
A1371	5 mg

Store Temp -20°C

Ship Temp Ambient

Description Adrenorphin is an endogenous opioid peptide produced from cleavage of proenkephalin A. Adrenorphin acts as an agonist at κ -opioid receptors (κ ORs) and μ -opioid receptors (μ ORs). Like other opioids, adrenorphin exhibits analgesic, antinociceptive, and gastrointestinal motility modulating activities. Adrenorphin also causes respiratory depression in animal models. In pheochromocytoma cells, adrenorphin inhibits catecholamine secretion. In animal models, it also inhibits urinary bladder muscle contractions.

References Yanase T, Nawata H, Kato K, et al. Studies on adrenorphin in pheochromocytoma. J Clin Endocrinol Metab. 1987 Apr;64(4):692-7. PMID: 3818899.

Xu SF, Lu WX, Zhou KR, et al. The analgesic and respiratory depressant actions of metorphamide in mice and rabbits. Neuropeptides. 1985 Apr;6(2):121-31. PMID: 4000426.

Dray A, Davis TP. The proenkephalin A fragment metorphamide shows supraspinal and spinal opioid activity in vivo. Peptides. 1985 Mar-Apr;6(2):217-21. PMID: 3839922.

Weber E, Esch FS, Böhlen P, et al. Metorphamide: isolation, structure, and biologic activity of an amidated opioid octapeptide from bovine brain. Proc Natl Acad Sci U S A. 1983 Dec;80(23):7362-6. PMID: 6316361.

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