

Urocortin II (mouse) (trifluoroacetate salt)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Urocortin II is a neuropeptide hormone and member of the corticotropin-releasing factor (CRF) family which includes mammalian CRF , urocortin , urocortin III , frog sauvagine, and piscine urotensin I.
In vitro	Mouse urocortin II shares 34 and 42% sequence homology with rat CRF and urocortin . It is expressed in mouse paraventricular, supraoptic, and arcuate nuclei of the hypothalamus, the locus coeruleus, and in motor nuclei of the brainstem and spinal ventral horn. Urocortin II selectively binds to CRF1 over CRF2 receptors (K _i s = 0.66 and >100 nM, respectively) and induces cAMP production in CHO cells expressing CRF2 (EC ₅₀ = 0.14 nM).
In vivo	In vivo, urocortin II suppresses nighttime food intake by 35% in rats when administered intracerebroventricularly at a dose of 1 µg. Urocortin II (0.1 and 0.5 µg, i.c.v) stimulates fecal pellet output, increases distal colonic transit, and inhibits gastric emptying in mice. 2

Solubility Information

Solubility	H ₂ O: 1 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Reyes, T.M., Lewis, K., Perrin, M.H., et al. Urocortin II: A member of the corticotropin-releasing factor (CRF) neuropeptide family that is selectively bound by type 2 CRF receptors. Proc. Natl. Acad. Sci. U.S.A. 98(5), 2843-2848 (2001).

Martinez, V., Wang, L., Million, M., et al. Urocortins and the regulation of gastrointestinal motor function and visceral pain. Peptides 25(10), 1733-1744 (2004).

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