
Product Data Sheet

Product Name: Urotensin I (Catostomus urotensin I)

Cat. No.: GC32590

Chemical Properties

Cas. No. 83930-33-0

SMILES Asn-Asp-Asp-Pro-Pro-Ile-Ser-Ile-Asp-Leu-Thr-Phe-His-Leu-Leu-Arg-Asn-Met-Ile-Glu-Met-Ala-Arg-Ile-Glu-Asn-Glu-Arg-Glu-Gln-Ala-Gly-Leu-Asn-Arg-Lys-Tyr-Leu-Asp-Glu-Val-NH₂Formula C₂₁₀H₃₄₀N₆₂O₆₇S₂ M.Wt 4869.46

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Urotensin I is, 41-aa neuropeptide, acts as an agonist of CRF receptor with pEC₅₀s of 11.46, 9.36 and 9.85 for human CRF1, human CRF2 and rat CRF2 α receptors in CHO cells, and Kis of 0.4, 1.8, and 5.7 nM for hCRF1, rCRF2 α and mCRF2 β receptors, respectively.

Urotensin I is a 41-aa neuropeptide, acts as an agonist of CRF receptor with pEC₅₀s of 11.46, 9.36 and 9.85 for human CRF1, human CRF2 and rat CRF2 α receptors in CHO cells[1] and with Kis of 0.4, 1.8, and 5.7 nM for hCRF1, rCRF2 α and mCRF2 β receptors in cell assay, respectively[2]. Urotensin I exhibits a striking sequence homology with ovine corticotropin-releasing factor and with frog sauvagine, and has potent hypotensive activity and corticotropin-releasing activity[3]. Urotensin I stimulates the release of ACTH from an isolated dispersed goldfish anterior pituitary cell column[4].

[1]. Smart D, et al. Characterisation using microphysiometry of CRF receptor pharmacology. Eur J Pharmacol. 1999 Aug 27;379(2-3):229-35. [2]. Reul JM, et al.

Caution: Product has not been fully validated for medical applications. For research use only.

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Corticotropin-releasing factor receptors 1 and 2 in anxiety and depression. *Curr Opin Pharmacol.* 2002 Feb;2(1):23-33. [3]. Lederis K, et al. Complete amino acid sequence of urotensin I, a hypotensive and corticotropin-releasing neuropeptide from *Catostomus*. *Science.* 1982 Oct 8;218(4568):162-5. [4]. Fryer J, et al. Urotensin I, a CRF-like neuropeptide, stimulates acth release from the teleost pituitary. *Endocrinology.* 1983 Dec;113(6):2308-10.

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