

Urocortin, human

Chemical Properties

CAS No. :	176591-49-4
Formula:	C204H337N63O64
Molecular Weight:	4696.32
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

**Arg-Ala-Glu-
Gln-Asn-Arg-Ile-
Ile-Phe-Asp-Ser-
Val-NH₂**

Biological Description

Description	Urocortin, human (Human urocortin I) is a 40 amino acid peptide which is closely related to corticotrophin-releasing factor (CRF).
Targets(IC50)	CRFR
In vitro	Urocortin, human, is a selective agonist of the CRF2 receptor, displaying K_i values of 0.4 nM for human CRF1, 0.3 nM for rat CRF2 α , and 0.5 nM for mouse CRF2 β receptors in cell assays [1].
In vivo	Urocortin (0.01 to 10 μ g) decreases food intake in both food-deprived and non-deprived rats, with similar effects observed in mice following a 1 μ g i.c.v. administration. It is a potent suppressor of ingestive behavior and has the potential to induce anxiogenic behavior[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2129 mL	1.0647 mL	2.1293 mL
5 mM	0.0426 mL	0.2129 mL	0.4259 mL
10 mM	0.0213 mL	0.1065 mL	0.2129 mL
50 mM	0.0043 mL	0.0213 mL	0.0426 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Reul JM, et al. Corticotropin-releasing factor receptors 1 and 2 in anxiety and depression. *Curr Opin Pharmacol.* 2002 Feb;2(1):23-33.

Skelton KH, et al. The neurobiology of urocortin. *Regul Pept.* 2000 Sep 25;93(1-3):85-92.

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