

## Urocortin, rat

Cat. No.:	HY-P1296
CAS No.:	171543-83-2
Molecular Formula:	C <sub>206</sub> H <sub>338</sub> N <sub>62</sub> O <sub>64</sub>
Molecular Weight:	4707.26
Sequence:	Asp-Asp-Pro-Pro-Leu-Ser-Ile-Asp-Leu-Thr-Phe-His-Leu-Leu-Arg-Thr-Leu-Leu-Glu-Leu-Ala-Arg-Thr-Gln-Ser-Gln-Arg-Glu-Arg-Ala-Glu-Gln-Asn-Arg-Ile-Ile-Phe-Asp-Ser-Val-NH <sub>2</sub>
Sequence Shortening:	DDPPLSIDLTFHLLRTLLELARTQSQRERAEQNRIIFDSV-NH <sub>2</sub>
Target:	CRFR
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder      -80°C      2 years
	-20°C      1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

### BIOLOGICAL ACTIVITY

Description	Urocortin, rat (Urocortin ( <i>Rattus norvegicus</i> )) is a neuropeptide and a potent endogenous CRFR agonist with K <sub>i</sub> s of 13 nM, 1.5 nM, and 0.97 nM for human CRF <sub>1</sub> , rat CRF <sub>2α</sub> and mouse CRF <sub>2β</sub> , respectively <sup>[1][2]</sup> .	
IC <sub>50</sub> & Target	CRFR1	CRFR2
In Vitro	Urocortin, rat induces cyclic AMP (cAMP) generation with EC <sub>50</sub> of 0.15 nM, 0.063 nM, and 0.087 nM for human CRF <sub>1</sub> , rat CRF <sub>2α</sub> and mouse CRF <sub>2β</sub> , respectively in stably transfected Chinese hamster ovary cells <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Urocortin, rat (0.01 to 10 μg) decreases food intake in both food-deprived and non-deprived rats and such an effect also observed in mice after 1 μg of Urocortin, rat i.c.v. administration. Urocortin, rat has the potential of inducing anxiogenic behavior <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

### REFERENCES

- [1]. Reul JM, et al. Corticotropin-releasing factor receptors 1 and 2 in anxiety and depression. *Curr Opin Pharmacol*. 2002 Feb;2(1):23-33.
- [2]. Skelton KH, et al. The neurobiology of urocortin. *Regul Pept*. 2000 Sep 25;93(1-3):85-92.
- [3]. Perrin MH, et al. Corticotropin releasing factor receptors and their ligand family. *Ann N Y Acad Sci*. 1999 Oct 20;885:312-28.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA