

## Urocortin, human

Cat. No.:	HY-P1295
CAS No.:	176591-49-4
Molecular Formula:	C <sub>204</sub> H <sub>337</sub> N <sub>63</sub> O <sub>64</sub>
Molecular Weight:	4696.24
Sequence:	Asp-Asn-Pro-Ser-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:	DNPSLSIDLTFHLLRTLLELARTQSQRERAEQNRIIFDSV-NH <sub>2</sub>
Target:	CRFR
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture Powder    -80°C    2 years -20°C    1 year

\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### BIOLOGICAL ACTIVITY

<b>Description</b>	Urocortin, human, a 40-aa neuropeptide, acts as a selective agonist of endogenous CRF <sub>2</sub> receptor, with K <sub>i</sub> s of 0.4, 0.3, and 0.5 nM for hCRF <sub>1</sub> , rCRF <sub>2α</sub> and mCRF <sub>2β</sub> , respectively.
<b>IC<sub>50</sub> &amp; Target</b>	Ki: 0.4 nM (hCRF <sub>1</sub> , cell assay), 0.3 nM (rCRF <sub>2α</sub> , cell assay), and 0.5 nM (mCRF <sub>2β</sub> , cell assay) <sup>[1]</sup>
<b>In Vitro</b>	Urocortin, human is a selective agonist of CRF <sub>2</sub> receptor, with K <sub>i</sub> s of 0.4, 0.3, and 0.5 nM for human CRF <sub>1</sub> , rat CRF <sub>2α</sub> and mouse CRF <sub>2β</sub> receptors in cell assay, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Urocortin (0.01 to 10 μg) decreases food intake in both food-deprived and non-deprived rats and such a effect also observed in mice after 1 μg of Urocortin i.c.v. administration. Urocortin has the potential of inducing anxiogenic behavior <sup>[2]</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.

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

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