

Urocortin, human

Chemical Properties

CAS No.:	176591-49-4
Formula:	C204H337N63O64
Molecular Weight:	4696.24
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Urocortin, human, a 40-aa neuropeptide, acts as a selective agonist of endogenous CRF2 receptor, with Kis of 0.4, 0.3, and 0.5 nM for hCRF1, rCRF2 α and mCRF2 β , respectively. Urocortin human can be used as a test compound for studying the impact of corticotropin-releasing factor (CRF) receptor agonist and antagonist on sleep-wake patterns in conscious rats by using radiotelemetry system.
In vitro	Urocortin, human is a selective agonist of CRF2 receptor, with Kis of 0.4, 0.3, and 0.5 nM for human CRF1, rat CRF2 α and mouse CRF2 β receptors in cell assay, respectively[1].
In vivo	Urocortin (0.01 to 10 μ g) decreases food intake in both food-deprived and non-deprived rats and such a effect also observed in mice after 1 μ g of Urocortin i.c.v. administration. Urocortin has the potential of inducing anxiogenic behavior[2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.213 mL	1.065 mL	2.129 mL
5 mM	0.043 mL	0.213 mL	0.426 mL
10 mM	0.021 mL	0.106 mL	0.213 mL
50 mM	0.004 mL	0.021 mL	0.043 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.

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