

## Urocortin (rat) acetate

## Chemical Properties

CAS No. :

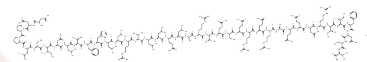
Formula: C208H342N62O66

Molecular Weight: 4767.39

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Urocortin (rat) acetate is a potent, selective CRFR agonist with $K_i$ values of 13 nM, 1.5 nM, and 0.97 nM for human CRF1, rat CRF2 $\alpha$ , and mouse CRF2 $\beta$ , respectively. Urocortin (rat) acetate exhibits cardioprotective, anti-inflammatory, and immunomodulatory activities. Urocortin (rat) acetate can be used in cardiovascular protection and immune-inflammatory research.
Targets(IC50)	CRFR
In vitro	Urocortin (rat) acetate induces cAMP generation with EC50 of 0.15 nM, 0.063 nM, and 0.087 nM for human CRF1, rat CRF2 $\alpha$ and mouse CRF2 $\beta$ , respectively in stably transfected Chinese hamster ovary cells[1].
In vivo	Urocortin (rat) acetate (0.01 to 10 $\mu$ g) decreases food intake in both food-deprived and non-deprived rats and such an effect was observed in mice after Urocortin (1 $\mu$ g; i.c.v.) administration[2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2098 mL	1.0488 mL	2.0976 mL
5 mM	0.042 mL	0.2098 mL	0.4195 mL
10 mM	0.021 mL	0.1049 mL	0.2098 mL
50 mM	0.0042 mL	0.021 mL	0.042 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.

Perrin MH, et al. Corticotropin releasing factor receptors and their ligand family. *Ann N Y Acad Sci.* 1999 Oct 20; 885:312-28.

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