

Urocortin, rat TFA (171543-83-2 free base)

Chemical Properties

CAS No. :

Formula: C208H339N62F3O66

Molecular Weight: 4821.28

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 TFA is a neuropeptide and a potent endogenous CRFR agonist (Kis: 0.97 nM, 1.5 nM, and 13 nM for mouse CRF2 β , rat CRF2 α , and human CRF1).
Targets(IC50)	Others
In vitro	In stably transfected Chinese hamster ovary cells, Urocortin, rat induces cAMP generation with EC50 of 0.15 nM, 0.063 nM, and 0.087 nM for human CRF1, rat CRF2 α , and mouse CRF2 β , respectively [2].
In vivo	Urocortin, rat (0.01 to 10 μ g) decreases food intake in both food-deprived and non-deprived rats and such an effect also observed in mice after 1 μ g of Urocortin, rat (i.c.v.). It has the potential of inducing anxiogenic behavior [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2074 mL	1.0371 mL	2.0741 mL
5 mM	0.0415 mL	0.2074 mL	0.4148 mL
10 mM	0.0207 mL	0.1037 mL	0.2074 mL
50 mM	0.0041 mL	0.0207 mL	0.0415 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

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

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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