Product Data Sheet

Product Name:	Urocortin II (human) (trifluoroacetate salt)
Cat. No.:	GC18231

Chemical Properties

Cas. No.	398001-88-2		
Chemical Name	N/A		
SMILES	N/A		
Formula	$C_{194}H_{339}N_{63}O_{54}S.XCF_3COOH$	M.Wt	4450.2
Solubility	Formic Acid: 1 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

Urocortin II is a neuropeptide hormone and member of the corticotropin-releasing factor (CRF) family which includes mammalian CRF , urocortin , urocortin III , frog sauvagine, and piscine urotensin I. Human urocortin II shares 34, 43, and 37-40% sequence homology with rat and human CRF, human urocortin , and human urocortin III. Urocortin II increases cell shortening and accelerates relaxation of rabbit ventricular myocytes in a time- and concentration-dependent manner. In vivo, urocortin reduces arterial blood pressure in normotensive and spontaneously hypertensive rats via peripheral CRF2 receptor agonism. It induces dose-dependent tachycardia and hypotension in rats when administered at doses of 3 and 30 pmol/kg. Urocortin (10 and 20 μg/kg) also reduces the visceral pain response to colorectal distension in conscious rats and delays gastric emptying in mice.

References:

[1]. Ad?o, R., Santos-Ribeiro, D., Rademaker, M.T., et al. Urocortin 2 in cardiovascular

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

health and disease Drug Discov. Today 20(7), 906-914 (2015).
[2]. Gardiner, S.M., March, J.E., Kemp, P.A., et al. Regional hemodynamic actions of selective corticotropin-releasing factor type 2 receptor ligands in conscious rats J. Pharmacol. Exp. Ther. 312(1), 53-60 (2005).
[3]. Million, M., Wang, L., Wang, Y., et al. CRF2 receptor activation prevents colorectal distension induced visceral pain and spinal ERK1/2 phosphorylation in rats Gut 55(2), 172-181 (2006).

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA