
Product Data Sheet

Product Name: Urocortin II, human

Cat. No.: GC37868

Chemical Properties

Cas. No. 351999-18-3

Formula C₁₉₄H₃₃₉N₆₃O₅₄S

M.Wt

4450.28

Solubility Soluble in DMSO

Storage

Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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.¹ 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.² Urocortin (10 and 20 µg/kg) also reduces the visceral pain response to colorectal distension in conscious rats and delays gastric emptying in mice.^{1,3}

1. Adão, R., Santos-Ribeiro, D., Rademaker, M.T., et al. Urocortin 2 in cardiovascular 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

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

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colorectal distension induced visceral pain and spinal ERK1/2 phosphorylation in ratsGut55(2)172-181(2006)

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