

Urocortin III (mouse) (free acid)

Cat. No.:	HY-P3597
Molecular Formula:	C ₁₈₆ H ₃₁₁ N ₅₁ S ₂
Molecular Weight:	4171.26
Sequence Shortening:	FTLSLDVPTNIMNILFNIDKAKNLRAKAAANAQLMAQI
Target:	CFTR
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Urocortin III (mouse) (free acid) is a selective CRF2 receptor agonist (with high affinity for the CRF2 receptor). Urocortin III (mouse) (free acid) significantly inhibits gastric emptying without modifying colonic transit ^{[1][2]} .									
IC₅₀ & Target	CRF2 receptor ^{[1][2]} .									
In Vivo	<p>Urocortin III (mouse) (free acid) (120 µg/kg; i.p.; single) inhibits gastric emptying of a solid meal without modifying colonic transit in mice^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Adult male C57BL/6 mice (6 to 8-week-old)^[1].</td> </tr> <tr> <td>Dosage:</td> <td>12, 60, 120 µg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intraperitoneal injection; single</td> </tr> <tr> <td>Result:</td> <td>Inhibited gastric emptying of the solid meal only at the highest dose, and did not alter distal colonic transit.</td> </tr> </table>		Animal Model:	Adult male C57BL/6 mice (6 to 8-week-old) ^[1] .	Dosage:	12, 60, 120 µg/kg	Administration:	Intraperitoneal injection; single	Result:	Inhibited gastric emptying of the solid meal only at the highest dose, and did not alter distal colonic transit.
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REFERENCES

[1]. Martínez V, et al. Differential actions of peripheral corticotropin-releasing factor (CRF), urocortin II, and urocortin III on gastric emptying and colonic transit in mice: role of CRF receptor subtypes 1 and 2. *J Pharmacol Exp Ther.* 2002 May;301(2):611-7.

[2]. Lewis K, et al. Identification of urocortin III, an additional member of the corticotropin-releasing factor (CRF) family with high affinity for the CRF2 receptor. *Proc Natl Acad Sci U S A.* 2001 Jun 19;98(13):7570-5.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA