SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Urocortin (human) (trifluoroacetate salt)

Item No. 24744

Formal Name: L-α-aspartyl-L-asparaginyl-L-prolyl-L-seryl-L-leucyl-L-seryl-L-isoleucyl-L-α-aspartyl-L-leucyl-L-threonyl-L-phenylalanyl-L-histidyl-L-leucyl-L-leucyl-L-arginyl-L-threonyl-L-leucyl-L-leucyl-L-α-glutamyl-L-leucyl-L-alanyl-L-arginyl-L-threonyl-L-glutaminyl-L-seryl-L-glutaminyl-L-arginyl-L-α-glutamyl-L-arginyl-L-alanyl-L-α-glutamyl-L-glutaminyl-L-asparaginyl-L-arginyl-L-isoleucyl-L-isoleucyl-L-phenylalanyl-L-α-aspartyl-L-seryl-L-valinamide, trifluoroacetate salt

H – Asp – Asn – Pro – Ser – Leu – Ser – Ile – Asp – Leu – Thr –
Phe – His – Leu – Leu – Arg – Thr – Leu – Leu – Glu – Leu –
Ala – Arg – Thr – Gln – Ser – Gln – Arg – Glu – Arg – Ala –
Glu – Gln – Asn – Arg – Ile – Ile – Phe – Asp – Ser – Val – NH_2

• XCF_3COOH

MF: $C_{204}H_{337}N_{63}O_{64}$ • XCF_3COOH
FW: 4,696.3
Purity: ≥95%
Supplied as: A lyophilized powder
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Urocortin (human) (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the urocortin (human) (trifluoroacetate salt) in the solvent of choice. Urocortin (human) (trifluoroacetate salt) is soluble in the organic solvent formic acid, which should be purged with an inert gas, at a concentration of approximately 1 mg/ml.

Description

Urocortin is a neuropeptide hormone and member of the corticotropin-releasing factor (CRF) family which includes mammalian CRF (Item No. 24407), urocortin II (Item Nos. 24746 | 24747), urocortin III (Item Nos. 24748 | 24749 | 24750), frog sauvagine, and piscine urotensin I.[1] Human urocortin shares 95% sequence homology with rat urocortin (Item No. 24745). Urocortin binds to type 1 and 2 CRF receptors as well as CRF binding protein (CRF-BP) with K_i values of 0.41, 1.8, 1.5, and 0.22 nM for human CRF_1, rat $CRF_{2\alpha}$, mouse $CRF_{2\beta}$, and human CRF-BP, respectively. It induces cAMP production in CHO cells expressing human CRF_1, rat $CRF_{2\alpha}$, and mouse $CRF_{2\beta}$ receptors (EC_{50}s = 0.22, 0.32, and 0.13 nM, respectively). Urocortin induces secretion of adrenocorticotropic hormone (ACTH) by rat anterior pituitary cells in a concentration-dependent manner, an effect that can be inhibited by human CRF-BP. It inhibits migration and proliferation of human vascular smooth muscle cells (VSMCs) and reduces LDL-induced foam cell formation *in vitro*.[2] *In vivo*, urocortin slows development of aortic atherosclerotic lesions in $Apoe^{-/-}$ mice. Urocortin also decreases food intake in food-deprived and non-deprived rats as well as water intake in water-deprived rats in a dose-dependent manner.[3]

References

1. Donaldson, C.J., Sutton, S.W., Perrin, M.H., *et al.* Cloning and characterization of human urocortin. *Endocrinology* **137(5)**, 2167-2170 (1996).
2. Hasegawa, A., Sato, K., Shirai, R., *et al.* Vasoprotective effects of urocortin 1 against atherosclerosis *in vitro* and *in vivo*. *PLoS One* **9(12):e110866**, (2014).
3. Spina, M.G., Merlo-Pich, E., Chan, R.K.W., *et al.* Appetite-suppressing effects of urocortin, a CRF-related neuropeptide. *Science* **273(5281)**, 1561-1564 (1996).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM