

Urocortin III (human)

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| Cat. No.: | HY-P3019 |
| CAS No.: | 357952-09-1 |
| Molecular Formula: | C ₁₈₅ H ₃₀₇ N ₅₃ O ₅₀ S ₂ |
| Molecular Weight: | 4137.93 |
| Sequence: | Phe-Thr-Leu-Ser-Leu-Asp-Val-Pro-Thr-Asn-Ile-Met-Asn-Leu-Leu-Phe-Asn-Ile-Ala-Lys-Ala-Lys-Asn-Leu-Arg-Ala-Gln-Ala-Ala-Ala-Asn-Ala-His-Leu-Met-Ala-Gln-Ile-NH ₂ |
| Sequence Shortening: | FTLSLDVPTNIMNLLFNIAKAKNLRAQAAANAHLMAQI-NH ₂ |
| Target: | CRFR |
| Pathway: | GPCR/G Protein |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |

BIOLOGICAL ACTIVITY

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| Description | Urocortin III (human) is a corticotropin-releasing factor (CRF)-related peptide. Urocortin III (human) preferentially binds and activates CRF-R2 and has a discrete central nervous system and peripheral distribution. Urocortin III (human) selectively binds to type 2 CRF receptors with K _i values of 13.5, 21.7, and >100 nM for mCRF2β, rCRF2α, and hCRF1, respectively. Urocortin III (human) mediates somatostatin-dependent negative feedback control of Insulin (human) (HY-P0035) secretion [1][2]. |
| IC ₅₀ & Target | Ki: 13.5 (mCRF2β), 21.7 (rCRF2α), and >100 nM (hCRF1)[1] |
| In Vitro | Urocortin III (human) (20 min; CHO cells stably expressing either cloned human CRF-R1 or murine CRF-R2) induces intracellular cAMP accumulation in cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. 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.

[2]. van der Meulen T, et, al. Urocortin3 mediates somatostatin-dependent negative feedback control of insulin secretion. Nat Med. 2015 Jul;21(7):769-76.

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

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