

Product datasheet for **AR31126PU-L**

Corticoliberin Human, Rat Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Corticoliberin human, rat protein, 1.0 mg
Species:	Human, Rat
Expression cDNA Clone or AA Sequence:	SEPPISLDL TFHLLREVLE MARAEQLAQQ AHSNRKLMEI I-NH2 (1-letter code). Ser-Glu-Glu-Pro-Pro-Ile-Ser-Leu-Asp-Leu-Thr-Phe-His-Leu-Leu-Arg-Glu-Val-Leu-Glu-Met-Ala-Arg-Ala-Glu-Gln-Leu-Ala-Gln-Gln-Ala-His-Ser-Asn-Arg-Lys-Leu-Met-Glu-Ile-Ile-NH2 (3-letter code).
Predicted MW:	4757.43 Da
Purity:	>95% by HPLC
Buffer:	State: Purified peptide
Preparation:	Purified peptide
Protein Description:	Human, Rat Corticotropin Releasing Factor. Formula: C ₂₀₈ H ₃₄₄ N ₆₀ O ₆₃ S ₂
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
RefSeq:	NP_000747
Locus ID:	1392
UniProt ID:	P06850 , A0A0S2Z478
Cytogenetics:	8q13.1
Synonyms:	CRF; CRH1



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Summary:

This gene encodes a member of the corticotropin-releasing factor family. The encoded preproprotein is proteolytically processed to generate the mature neuropeptide hormone. In response to stress, this hormone is secreted by the paraventricular nucleus (PVN) of the hypothalamus, binds to corticotropin releasing hormone receptors and stimulates the release of adrenocorticotrophic hormone from the pituitary gland. Marked reduction in this protein has been observed in association with Alzheimer's disease. Autosomal recessive hypothalamic corticotropin deficiency has multiple and potentially fatal metabolic consequences including hypoglycemia and hepatitis. In addition to production in the hypothalamus, this protein is also synthesized in peripheral tissues, such as T lymphocytes, and is highly expressed in the placenta. In the placenta it is a marker that determines the length of gestation and the timing of parturition and delivery. A rapid increase in circulating levels of the hormone occurs at the onset of parturition, suggesting that, in addition to its metabolic functions, this protein may act as a trigger for parturition. [provided by RefSeq, Nov 2015]

Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

Long-term depression