

Recombinant Human CRH protein, His & GST-tagged

Cat. No. CRH-7791H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human CRH aa. (His40~Gly195 (Accession # P06850)) fused with N-terminal His & GST tag was produced in E. coli cells.

Species Human

Source E.coli

ProteinLength His40~Gly195

Description

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.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 49.2kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.3.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4

GENE INFORMATION

Gene Name	CRH corticotropin releasing hormone [Homo sapiens (human)]
Official Symbol	CRH
Synonyms	CRH; corticotropin releasing hormone; CRF; CRH1; corticoliberin; corticotropin-

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	releasing factor
Gene ID	1392
mRNA Refseq	NM_000756.3
Protein Refseq	NP_000747.1
UniProt ID	P06850

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