

Recombinant Human CRH Protein, His&GST-tagged

Cat. No. CRH-841H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CRH Protein (Ser154-Ile194) with His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser154-Ile194
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: 34.8 kDa; Accurate Molecular Mass: 37 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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 centigrade 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 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	CRH corticotropin releasing hormone [Homo sapiens (human)]
Official Symbol	CRH
Synonyms	CRH; corticotropin releasing hormone; corticoliberin; corticotropin releasing factor; CRF; corticotropin-releasing factor;
Gene ID	1392

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mRNA Refseq	NM_000756
Protein Refseq	NP_000747
MIM	122560
UniProt ID	P06850

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