Recombinant Human CRH, GST-tagged

Cat. No. CRH-108H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CRH partial ORF (AAH11031, 154 a.a. - 196 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
ProteinLength	154-196 aa
Description	Alpha-ketoglutarate-dependent dioxygenase FTO, also known as Fat mass and obesity-associated protein, FTO and KIAA1752, is a nucleus protein which belongs to the fto family. FTO is ubiquitously expressed, with relatively high expression in adrenal glands and brain; especially in hypothalamus and pituitary. FTO is a dioxygenase that repairs alkylated DNA and RNA by oxidative demethylation. FTO has highest activity towards single-stranded RNA containing 3-methyluracil, followed by single-stranded DNA containing 3-methylthymine. It has low demethylase activity towards single-stranded DNA containing 1-methyladenine or 3-methylcytosine. FTO has no activity towards 1-methylguanine. It has no detectable activity towards double-stranded DNA. FTO requires molecular oxygen, alpha-ketoglutarate and iron. FTO contributes to the regulation of the global metabolic rate, energy expenditure and energy homeostasis. It contributes to the regulation of body size and body fat accumulation as well. Defects in FTO are the cause of growth retardation developmental delay coarse facies and early death. The disease consists of a severe children multiple congenital anomaly syndrome with death by the age of 3 years. All

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	affected individuals had postnatal growth retardation, microcephaly, severe psychomotor delay, functional brain deficits, and characteristic facial dysmorphism.
Form	Liquid
Molecular Mass	30.47 kDa
AA Sequence	SEEPPISLDLTFHLLREVLEMARAEQLAQQAHSNRKLMEIIGK
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CRH corticotropin releasing hormone [Homo sapiens]
Official Symbol	CRH
Synonyms	CRH; corticotropin releasing hormone; corticoliberin; corticotropin releasing factor; CRF; corticotropin-releasing factor;
Gene ID	1392
mRNA Refseq	NM_000756
Protein Refseq	NP_000747
MIM	122560
UniProt ID	P06850

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Chromosome Location	8q13
Pathway	Class B/2 (Secretin family receptors), organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Long-term depression, organism-specific biosystem; Long-term depression, conserved biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem;
Function	corticotropin-releasing hormone activity; corticotropin-releasing hormone receptor 1 binding; corticotropin-releasing hormone receptor 2 binding; hormone activity; neuropeptide hormone activity; protein binding; receptor binding;

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