Corticotropin-Releasing Factor Receptor 1 (CRHR1) ELISA Kit for Human

PRODUCT OVERVIEW

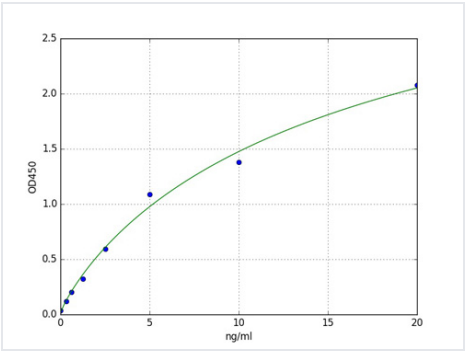
Product Name	Corticotropin-releasing factor receptor 1 (CRHR1), ELISA Kit
Full Product Name	Human Corticotropin-releasing factor receptor 1 ELISA Kit
Product Gene Name	CRHR1 elisa kit
Product Synonym Names	CRHR1/Corticotropin-releasing factor receptor 1/Corticotropin-releasing hormone receptor 1/CRF-R-1/CRF-R1/CRFR-1/CRH-R-1/CRH-R1/seven transmembrane helix receptor/CRF1/CRFR/CRHR1f/CRH-R1h/CRHR1L/CRHRCRH-R1
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	28,122 Da
OMIM	122561
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CRHR1 elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Human CRHR1antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human CRHR1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRPStreptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human CRHR1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration ofHuman CRHR1can be calculated.
Other Notes	Small volumes of CRHR1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CRHR1 purchase	MBS764896 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Corticotropin-releasing factor receptor 1 (CRHR1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CRHR1. The ELISA analytical biochemical technique of the MBS764896 kit is based on CRHR1 antibody-CRHR1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CRHR1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CRHR1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

Typical Data & Standard Curve

Results of a typical standard run of a Human CRHR1 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.313	0.625	1.25	2.5	5	10	20
Y	OD450	0.044	0.089	0.155	0.258	0.486	0.900	1.513	2.395

Typical Testing Data of CRHR1 elisa kit



Typical Standard Curve of CRHR1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRHR1. It may not necessarily be applicable to this product.

NCBI GI #	223717971
NCBI GeneID	1394
NCBI Accession #	NP_001138618.1
UniProt Secondary Accession #	Q13008; Q4QRJ1; Q9UK64; B4DIE9
UniProt Related Accession #	P34998
GenBank Nucleotide #	NM_001145146.1
NCBI Official Full Name	corticotropin-releasing factor receptor 1 isoform 1
NCBI Official Synonym Full Names	corticotropin releasing hormone receptor 1
NCBI Official Symbol	CRHR1
NCBI Official Synonym Symbols	CRF1; CRHR; CRF-R; CRFR1; CRF-R1; CRFR-1; CRH-R1; CRHR1L; CRF-R-1; CRH-R-1
UniProt Protein Name	Corticotropin-releasing factor receptor 1
UniProt Synonym Protein Names	Corticotropin-releasing hormone receptor 1; CRH-R-1; CRH-R1
Protein Family	Corticotropin-releasing factor receptor
UniProt Gene Name	CRHR1
UniProt Synonym Gene Names	CRFR; CRFR1; CRHR; CRF-R-1; CRF-R1; CRFR-1; CRH-R-1; CRH-R1
UniProt Entry Name	CRFR1_HUMAN
NCBI Protein Information	corticotropin-releasing factor receptor 1
NCBI Summary for CRHR1	This gene encodes a G-protein coupled receptor that binds neuropeptides of the corticotropin releasing hormone family that are major regulators of the hypothalamic-pituitary-adrenal pathway. The encoded protein is essential for the activation of signal transduction pathways that regulate diverse physiological processes including stress, reproduction, immune response and obesity. Alternative splicing results in multiple transcript variants. Readthrough transcription also exists between this gene and upstream GeneID:401884 (ADP-ribosylation factor 3 pseudogene), and the readthrough transcripts encode isoforms that share similarity with the products of this gene. [provided by RefSeq, Dec 2014]

UniProt Comments for CRHR1	CRF-R1: a G-protein coupled receptor that specifically binds corticotropin-releasing hormone, a potent mediator of endocrine, autonomic, behavioral, and immune responses to stress. Four splice-variant isoforms have been described. Protein type: GPCR, family 2; Membrane protein, integral; Membrane protein, multi-pass; Receptor, GPCR Chromosomal Location of Human Ortholog: 17q21.31 Cellular Component: endosome; integral to membrane; integral to plasma membrane; intrinsic to plasma membrane; plasma membrane Molecular Function: corticotrophin-releasing factor receptor activity; protein binding Biological Process: adenylate cyclase activation; adrenocorticotropin hormone secretion; cell surface receptor linked signal transduction; female pregnancy; immune response; parturition
Research Articles on CRHR1	**1.** The involvement of CRHR1 in ND.
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