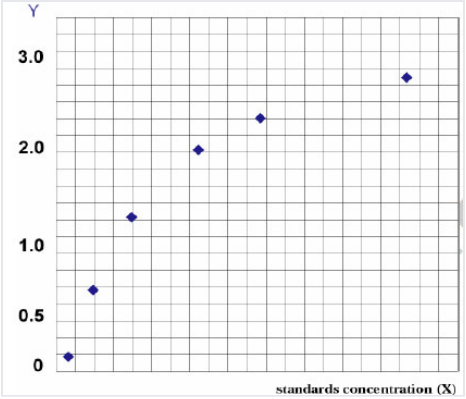
CXC Chemokine Receptor 2 (CXCR2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	CXC chemokine receptor 2 (CXCR2), ELISA Kit
Full Product Name	Human CXC chemokine receptor 2 ELISA Kit
Product Gene Name	CXCR2 elisa kit
Species Reactivity	Human
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	40,759 Da
OMIM	146928
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for CXCR2 elisa kit	Immunology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CXCR2 elisa kit	**Intended Uses:** This CXCR2 ELISA kit is intended Laboratory for research use only.The Stop Solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration ofCXCR2 in the sample, thisCXCR2 ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versusCXCR2 concentration. The concentration ofCXCR2 in the samples is then determined by comparing the O.D. of the samples to the standard curve. **Principle of the Assay:** This CXCR2 enzyme linked immunosorbent assay applies a technique called a quantitative sandwich immunoassay. The microtiter plate provided in this kit has been pre-coated with a monoclonal antibody specific forCXCR2. Standards or samples are then added to the microtiter plate wells andCXCR2 if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount ofCXCR2 present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated polyclonal antibody, specific forCXCR2 are added to each well to "sandwich" theCXCR2 immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, A and B substrate solution is added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period.Only those wells that containCXCR2 and enzyme-conjugated antibody will exhibit a change in colour. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the colour change is measured spectrophotometrically at a wavelength of 450 nm.
Other Notes	Small volumes of CXCR2 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 CXCR2 purchase	MBS727762 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the CXC chemokine receptor 2 (CXCR2) 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 CXCR2. The ELISA analytical biochemical technique of the MBS727762 kit is based on CXCR2 antibody-CXCR2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CXCR2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CXCR2. 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 Testing Data/Standard Curve (for reference only) of CXCR2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CXCR2. It may not necessarily be applicable to this product.

NCBI GI #	269973859
NCBI GeneID	3579
NCBI Accession #	NP_001161770.1
UniProt Secondary Accession #	Q8IUZ1; Q9P2T6; Q9P2T7
UniProt Related Accession #	P25025; AAA15417; AAB24742
GenBank Nucleotide #	NM_001168298.1
NCBI Official Full Name	C-X-C chemokine receptor type 2
NCBI Official Synonym Full Names	chemokine (C-X-C motif) receptor 2
NCBI Official Symbol	CXCR2
NCBI Official Synonym Symbols	CD182; IL8R2; IL8RA; IL8RB; CMKAR2; CDw128b
UniProt Protein Name	C-X-C chemokine receptor type 2
UniProt Synonym Protein Names	CDw128b; GRO/MGSA receptor; High affinity interleukin-8 receptor B; IL-8R B; IL-8 receptor type 2; CD_antigen: CD182
Protein Family	C-X-C chemokine receptor
UniProt Gene Name	CXCR2
UniProt Synonym Gene Names	IL8RB; CXC-R2; CXCR-2; IL-8R B
UniProt Entry Name	CXCR2_HUMAN
NCBI Protein Information	C-X-C chemokine receptor type 2; CXC-R2; CXCR-2; IL-8R B; GRO/MGSA receptor; IL-8 receptor type 2; interleukin 8 receptor B; chemokine (CXC) receptor 2; interleukin 8 receptor, beta; interleukin 8 receptor type 2; interleukin-8 receptor type B; CXCR2 gene for IL8 receptor type B; high affinity interleukin-8 receptor B

NCBI Summary for CXCR2	The protein encoded by this gene is a member of the G-protein-coupled receptor family. This protein is a receptor for interleukin 8 (IL8). It binds to IL8 with high affinity, and transduces the signal through a G-protein activated second messenger system. This receptor also binds to chemokine (C-X-C motif) ligand 1 (CXCL1/MGSA), a protein with melanoma growth stimulating activity, and has been shown to be a major component required for serum-dependent melanoma cell growth. This receptor mediates neutrophil migration to sites of inflammation. The angiogenic effects of IL8 in intestinal microvascular endothelial cells are found to be mediated by this receptor. Knockout studies in mice suggested that this receptor controls the positioning of oligodendrocyte precursors in developing spinal cord by arresting their migration. This gene, IL8RA, a gene encoding another high affinity IL8 receptor, as well as IL8RBP, a pseudogene of IL8RB, form a gene cluster in a region mapped to chromosome 2q33-q36. Alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Nov 2009]
UniProt Comments for CXCR2	IL-8R B: Receptor for interleukin-8 which is a powerful neutrophil chemotactic factor. Binding of IL-8 to the receptor causes activation of neutrophils. This response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system. Binds to IL-8 with high affinity. Also binds with high affinity to CXCL3, GRO/MGSA and NAP-2. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, integral; Receptor, GPCR; Membrane protein, multi-pass; GPCR, family 1; Receptor, cytokine Chromosomal Location of Human Ortholog: 2q35 Cellular Component: cell surface; mast cell granule; membrane; integral to plasma membrane; plasma membrane; intracellular Molecular Function: protein binding; signal transducer activity; interleukin-8 receptor activity; interleukin-8 binding; C-X-C chemokine receptor activity Biological Process: neutrophil chemotaxis; neutrophil activation; signal transduction; chemotaxis; positive regulation of vascular permeability; negative regulation of neutrophil apoptosis; elevation of cytosolic calcium ion concentration; positive regulation of angiogenesis; cell surface receptor linked signal transduction; receptor internalization; positive regulation of cell proliferation; midbrain development; dendritic cell chemotaxis; cellular defense response; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); inflammatory response; acute inflammatory response to antigenic stimulus
Research Articles on CXCR2	**1.** New conformational state of NHERF1-CXCR2 signaling complex captured by crystal lattice trapping.
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