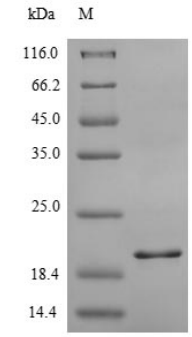
Recombinant Human C-X-C chemokine receptor type 2 (CXCR2), partial

Product Code	CSB-EP011673HU
Relevance	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.
Abbreviation	Recombinant Human CXCR2 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P25025
Alias	CDw128b GRO/MGSA receptor High affinity interleukin-8 receptor B Short name: IL-8R B IL-8 receptor type 2 CD_antigen: CD182
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MEDFNMESDSFEDFWKGEDLSNYSYSSTLPPFLLDAAPCE
Research Area	Signal Transduction
Source	E.coli
Target Names	CXCR2
Expression Region	1-40aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	20.6kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The region for expressing recombinant Human CXCR2 contains amino acids 1-40. The calculated molecular weight for this CXCR2 protein is 20.6 kDa. This CXCR2 recombinant protein is manufactured in e.coli. The CXCR2 gene fragment has been modified by fusing the N-terminal 6xHis-SUMO tag, providing convenience in detecting and purifying the recombinant CXCR2 protein during the following stages.

Human C-X-C chemokine receptor type 2 (CXCR2) is a GPCR that plays a crucial role in immune responses and inflammation. Primarily expressed on the surface of various immune cells, including neutrophils, CXCR2 interacts with chemokines such as IL-8, to mediate cell migration and activation. This receptor is involved in directing immune cells to sites of infection or tissue damage. Beyond its role in immune function, CXCR2 has been implicated in various pathological conditions, including inflammatory diseases and cancer. Research on CXCR2 contributes to understanding immune system regulation and provides insights into potential therapeutic strategies for inflammatory disorders and cancer treatments.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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