



# Recombinant Human C-X-C chemokine receptor type 4 (CXCR4)

<b>Product Code</b>	CSB-CF006254HUa0
<b>Relevance</b>	Receptor for the C-X-C chemokine CXCL12/SDF-1 that transduces a signal by increasing intracellular calcium ion levels and enhancing MAPK1/MAPK3 activation. Acts as a receptor for extracellular ubiquitin; leading to enhanced intracellular calcium ions and reduced cellular cAMP levels. Involved in hematopoiesis and in cardiac ventricular septum formation. Also plays an essential role in vascularization of the gastrointestinal tract, probably by regulating vascular branching and/or remodeling processes in endothelial cells. Involved in cerebellar development. In the CNS, could mediate hippocampal-neuron survival.(Microbial infection) Acts as a coreceptor (CD4 being the primary receptor) for human immunodeficiency virus-1/HIV-1 X4 isolates and as a primary receptor for some HIV-2 isolates. Promotes Env-mediated fusion of the virus. Binds bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes
<b>Abbreviation</b>	Recombinant Human CXCR4 protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	P61073
<b>Product Type</b>	Transmembrane Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MSIPLPLLQIYTS DNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTG IVGNGLVILVMGYQKKLRSM TDKYRLHLSVADLLFVITLPFWAVDAVANWYFG NFLCKAVHVIYTVNLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGV WIPALLLTIPDFIFANVSEADDRYICDRFYPNDLWVVVVFQFQHIMVGLILPGIVILS CYCIIISKLSHSGKHQKRKALKTTVILILAFFACWLPYYIGISIDSFILLEI IKQGCEF ENTVHKWISITEALAFFHCCLNPILYAFLGAKFKTSAQHALTSVSRGSSSLKILSK GKRGGHSSVSTESSESSSFHSS
<b>Source</b>	in vitro E.coli expression system
<b>Target Names</b>	CXCR4
<b>Protein Names</b>	FB22FusinHM89LCR1Leukocyte-derived seven transmembrane domain receptor
<b>Expression Region</b>	1-356aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

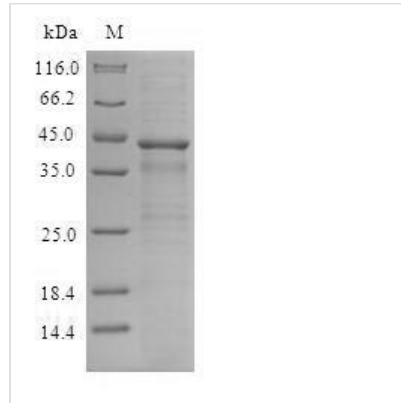


**Tag Info** N-terminal 6xHis-tagged

**Mol. Weight** 44.4kDa

**Protein Length** Full length of Isofrm2

**Image**



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

**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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