



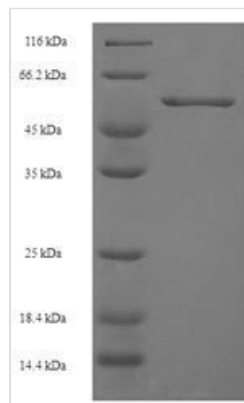
Recombinant Human C-X-C chemokine receptor type 4(CXCR4)

Product Code	CSB-CF006254HU
Relevance	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.10 Publications(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 (PubMed:9427609, PubMed:10074122, PubMed:10756055). Binds bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes (PubMed:11276205)
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.	P61073
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Transmembrane Protein
Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MSIPLPLLQIYTS DNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTG IVGNGLVILVMGYQKKLRSM TDKYRLHLSVADLLFVITLPFWAVDAVANWYFG NFLCKAVHVIYTVNLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVYVGV WIPALLLTIPDFIFANVSEADDRYICDRFYPNDLWVVVFQFQHIMVGLILPGIVILS CYCIIISKLSHSGHGHQKRKALKTTVILILAFFACWLPYYIGISIDSFILLEIKQGCEF ENTVHKWISITEALAFFHCCLNPILYAFLGAKFKTSAQHALTSVSRGSSSLKILSK GKRGGHSSVSTESESSSFHSS
Research Area	Immunology
Source	in vitro E.coli expression system
Gene Names	CXCR4
Protein Names	FB22FusinHM89LCR1Leukocyte-derived seven transmembrane domain receptorShort name:LESTRLipopolysaccharide-associated protein 3Short name:LAP-3Short name:LPS-associated protein 3NPYRLStromal cell-derived

factor 1 receptorShort name:SDF-1 receptorCD_antigen:

Expression Region	1-356aa
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	55.7kDa
Protein Description	Full length of Isofrm2

Image



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