

Datasheet for ABIN7553587  
**CXCR4 Protein (AA 1-352) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	CXCR4
Protein Characteristics:	AA 1-352
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CXCR4 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant CXCR4 Protein expressed in mammalian cells.
Sequence:	MEGISIYTSN NYTEEMGSGD YDSMKEPCFR EENANFNKIF LPTIYSIIFL TGIVGNGLVI LVMGYQKKLR SMTDKYRLHL SVADLLFVIT LPFWAVDAVA NWFYFGNFLCK AVHVIYTVNL YSSVLILAFI SLDRYLAIVH ATNSQRPRKL LAEKVVYVGV WIPALLLTIP DFIFANVSEA DDRYICDRFY PNDLWVVVFQ FQHIMVGLIL PGIVILSCYC IISKLSHSK GHQKRKALKT TVILILAFFA CWLPHYIGIS IDSFILLEII KQGCEFENTV HKWISITEAL AFFHCCLNPI LYAFLGAKFK TSAQHALTSV SRGSSLKILS KGKRGGHSSV STESESSFH SS <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

## Product Details

---

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

---

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
---------	---

---

Grade:	custom-made
--------	-------------

---

## Target Details

---

Target:	CXCR4
---------	-------

---

Alternative Name:	CXCR4 ( <a href="#">CXCR4 Products</a> )
-------------------	--

---

Background:	C-X-C chemokine receptor type 4 (CXC-R4) (CXCR-4) (FB22) (Fusin) (HM89) (LCR1) (Leukocyte-derived seven transmembrane domain receptor) (LESTR) (Lipopolysaccharide-associated protein 3) (LAP-3) (LPS-associated protein 3) (NPYRL) (Stromal cell-derived factor 1 receptor) (SDF-1 receptor) (CD antigen CD184),FUNCTION: 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 (PubMed:10452968, PubMed:28978524, PubMed:18799424, PubMed:24912431). Involved in the AKT signaling cascade (PubMed:24912431). Plays a role in regulation of cell migration, e.g. during wound healing (PubMed:28978524). Acts as a receptor for extracellular ubiquitin, leading to enhanced intracellular calcium ions and reduced cellular cAMP levels (PubMed:20228059). Binds bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes (PubMed:11276205). 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
-------------	--

---

## Target Details

---

in endothelial cells. Involved in cerebellar development. In the CNS, could mediate hippocampal-neuron survival (By similarity). {ECO:0000250|UniProtKB:P70658, ECO:0000269|PubMed:10074102, ECO:0000269|PubMed:10452968, ECO:0000269|PubMed:10644702, ECO:0000269|PubMed:10825158, ECO:0000269|PubMed:11276205, ECO:0000269|PubMed:17197449, ECO:0000269|PubMed:18799424, ECO:0000269|PubMed:20048153, ECO:0000269|PubMed:20228059, ECO:0000269|PubMed:20505072, ECO:0000269|PubMed:24912431, ECO:0000269|PubMed:28978524, ECO:0000269|PubMed:8752280, ECO:0000269|PubMed:8752281}., FUNCTION: (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:8849450, PubMed:8929542, PubMed:9427609, PubMed:10074122, PubMed:10756055). {ECO:0000269|PubMed:10074122, ECO:0000269|PubMed:10756055, ECO:0000269|PubMed:8849450, ECO:0000269|PubMed:8929542, ECO:0000269|PubMed:9427609}.

---

Molecular Weight: 39.7 kDa

---

UniProt: [P61073](#)

---

Pathways: [Regulation of Cell Size, CXCR4-mediated Signaling Events](#)

## Application Details

---

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

---

Restrictions: For Research Use only

## Handling

---

Format: Liquid

---

Buffer: The buffer composition is at the discretion of the manufacturer.

---

Handling Advice: Avoid repeated freeze-thaw cycles.

---

Storage: -80 °C

---

Storage Comment: Store at -80°C.

---

Expiry Date: 12 months