

## CXCR4- Protein-C-X-C chemokine receptor type 4

### Product specification

**Acronym:** hCXCR4  
**Class:** Receptor  
**Origin:** Human  
**Molecular weight:** 40 kDa  
**Application:**

**Purity:** >80%  
**Activity:** To be tested  
**Length:** 352  
**TMD:** 7  
**Biological function:** HIV virus recognition protein and cancer biomarker

### Product description

Human CXCR4, C-X-C chemokine type 4 is a receptor for stromal-derived-factor-1 (SDF-1 also called CXCL12), a molecule endowed with potent chemotactic activity for lymphocytes. CXCR4 is essential for proper fetal development and is the major co-receptor for T-tropic strains of human immunodeficiency virus 1 (HIV-1). Additionally, SDF-1 and CXCR4 mediate cancer cell migration and metastasis. As most N-terminal domain of chemokine receptors are the ligand binding domain, the N-terminal domain of CXCR4 is the binding site for SDF-1.

**Protein Source:** hCXCR4 wild type protein (Human CXCR4 isoform 1).

*Fig.1: AA sequence of C-X-C chemokine receptor type 4 protein*

10	20	30	40	50
MEGLSTLYTSD	NYTRKMGSIQ	YDSMKKPKPKR	EKNANPKKIK	LPTLYSILKPL
60	70	80	90	100
TRIVANGELVI	LVMEYQKKLR	SMYDKYRIHL	SVADILKVIIT	LPHWAVDAVA
110	120	130	140	150
NWYPCNPLCK	AVHVIYTVNL	YSSVLTITAPT	SLDRYLAIVH	ATNSQRPRKI
160	170	180	190	200
LAEKVVYVGV	WIPALLLTIP	DFIFANVSEK	DDRYICDRFY	PNELWVVVFQ
210	220	230	240	250
FQHIMVGLIL	PGIVILSCYC	IIISKLSHSK	GHQKRAKLT	TVILILAFPA
260	270	280	290	300
CWLPYYIGIS	IDSFILLEII	KQCCEPENTV	HKWISITIAL	AFHCCCLNPI
310	320	330	340	350
LYAFLGAKFK	TSAQHALTSV	SRGSSLKILS	KGKRGHSSV	STESSESSFH

**Affinity Tag:** Histidine tag fused to the N-terminal end of the protein and Strep tag fused to the C-terminal end of the protein.

**Production conditions:** C-X-C chemokine receptor 4 is expressed in a cell-free expression system, in the presence of detergent. 100µg can be produced and qualified in about 1 week.

## Formulation

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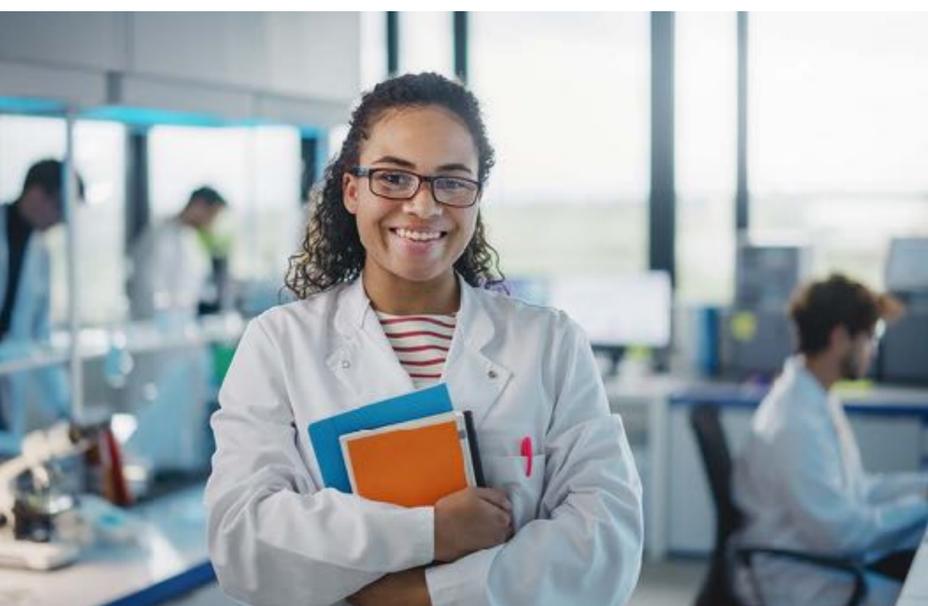
**Buffer:** Available in Tris 50mM, pH 7.5. Others buffers or customized formulation can be provided upon request.

**Customized Hydrophobic matrix:** Customized formulation with specific lipids like PEGylated or biotinylated lipids can be used upon request, as well as targeting molecules.

**Storage/Stability:** Store at +4°C for up to one week or several months at -80°C. Aliquot for storage. Do not freeze-thaw after aliquoting.

**Use restrictions:** For life science research use only.

**Available sizes:** 25µg ,100 µg ,500 µg,bulk



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