

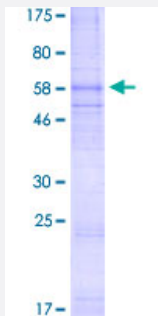
Full-Length

CXCR4 (Human) Recombinant Protein (P01)

Catalog # H00007852-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CXCR4 full-length ORF (AAH20968.1, 1 a.a. - 352 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MEGSIYTS DNYTEEMGSGDYDSMKEPCFREANANFNKIFLPTIYSIIFLTGIVGNGLVILVMGYQKKL
RSMTDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNLYSSVLILAFISLDRYLAI
VHATNSQRPRKLLAEKVYVGVWIPALLLTIPDFIFANVSEADDRYICDRFYPNDLWVVVFQFQHIM
VGLILPGMILSCYCIISKLSHSGHQKRKALKTTVILILAFFACWLPYYIGISIDSFILLEIKQGCEFENT
VHKWISITEALAFFHCCLNPILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESSES
SSFHSS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

64.46

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CXCR4

Entrez GeneID [7852](#)

GeneBank Accession# [BC020968](#)

Protein Accession# [AAH20968](#)

Gene Name CXCR4

Gene Alias CD184, D2S201E, FB22, HM89, HSY3RR, LAP3, LCR1, LESTR, NPY3R, NPYR, NPYRL, NPY 3R, WHIM

Gene Description chemokine (C-X-C motif) receptor 4

Omim ID [162643](#) [193670](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a CXC chemokine receptor specific for stromal cell-derived factor-1. The protein has 7 transmembrane regions and is located on the cell surface. It acts with the CD4 protein to support HIV entry into cells and is also highly expressed in breast cancer cells. Mutations in this gene have been associated with WHIM (warts, hypogammaglobulinemia, infections, and myelodysplasia) syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]

Other Designations C-X-C chemokine receptor type 4|CD184 antigen|chemokine (C-X-C motif), receptor 4 (fusin)|chemokine receptor 4|fusin|leukocyte-derived seven-transmembrane-domain receptor|lipopolysaccharide-associated protein 3|neuropeptide Y receptor Y3|seven transmembrane

Pathway

- [Axon guidance](#)
- [Chemokine signaling pathway](#)
- [Cytokine-cytokine receptor interaction](#)
- [Endocytosis](#)
- [Leukocyte transendothelial migration](#)

Disease

- [Acquired Immunodeficiency Syndrome](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Coronary Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Growth Hormone-Secreting Pituitary Adenoma](#)
- [Hepatitis B](#)
- [HIV Infections](#)

- [Hyperglycemia](#)
- [Liver Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Mouth Neoplasms](#)
- [Multiple Sclerosis](#)
- [Neoplasm Invasiveness](#)
- [Pituitary Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Tumor Virus Infections](#)