

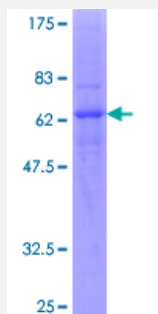
Full-Length

CXCR2 (Human) Recombinant Protein (P01)

Catalog # H00003579-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CXCR2 full-length ORF (NP_001548.1, 1 a.a. - 360 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MEDFNMESDSFEDFWKGEDLSNYSYSTLPPFLLDAAPCEPESLEINKYFVVIYALVFLSLLGN
SLVMLVILYSRVGRSVTDVYLLNLALADLLFALTLPWAASKVNGWIFGTFLCKVVSLLKEVNFYSGI
LLACISVDRYLAMHATRTLQKRYLVKFICLSIWGLSLLLALPVLLFRRTVYSSNVSPACYEDMGN
NTANWRMLLRILPQSFGFVPLLIMLFCYGFTLRTLFKAHMGQKHRAMRVIFAVVLIFLLCWLPYNLV
LLADTLMRTQVIQETCERRNHIDRALDATEILGILHSCLNPLYAFIGQKFRHGLLKILAIHGLISKDSLP
KDSRPSFVGSSSGHTSTTL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

67.2

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 — CXCR2

Entrez GeneID [3579](#)

GeneBank Accession# [NM_001557.2](#)

Protein Accession# [NP_001548.1](#)

Gene Name CXCR2

Gene Alias CD182, CDw128b, CMKAR2, IL8R2, IL8RA, IL8RB

Gene Description chemokine (C-X-C motif) receptor 2

Omim ID [146928](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a member of the G-protein-coupled receptor family. This protein is a receptor for interleukin 8 (IL8). It binds to IL8 with high affinity, and transduces the signal through a G-protein activated second messenger system. This receptor also binds to chemokine (C-X-C motif) ligand 1 (CXCL1/MGSA), a protein with melanoma growth stimulating activity, and has been shown to be a major component required for serum-dependent melanoma cell growth. This receptor mediates neutrophil migration to sites of inflammation. The angiogenic effects of IL8 in intestinal microvascular endothelial cells are found to be mediated by this receptor. Knockout studies in mice suggested that this receptor controls the positioning of oligodendrocyte precursors in developing spinal cord by arresting their migration. This gene, IL8RA, a gene encoding another high affinity IL8 receptor, as well as IL8RBP, a pseudogene of IL8RB, form a gene cluster in a region mapped to chromosome 2q33-q36. [provided by RefSeq]

Other Designations

C-X-C chemokine receptor type 2|CXC-R2|CXCR-2|CXCR2 gene for IL8 receptor type B|GRO/MGSA receptor|IL-8 receptor type 2|IL-8R B|chemokine (CXC) receptor 2|high affinity interleukin-8 receptor B|interleukin 8 receptor B|interleukin 8 receptor type 2|interl

Publication Reference

- [Identification of amino acid residues critical for the B cell growth-promoting activity of HIV-1 matrix protein p17 variants.](#)

He W, Mazzuca P, Yuan W, Varney K, Bugatti A, Cagnotto A, Giagulli C, Rusnati M, Marsico S, Diomedea L, Salmona M, Caruso A, Lu W, Caccuri F.

Biochimica et Biophysica acta. General Subjects 2018 Sep; 863(1):13.

Application: Func, Peptides

Pathway

- [Chemokine signaling pathway](#)
- [Cytokine-cytokine receptor interaction](#)
- [Endocytosis](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)

Disease

- [Acquired Immunodeficiency Syndrome](#)
- [Adenocarcinoma](#)
- [Alcoholism](#)
- [Asthma](#)
- [Bacteriuria](#)
- [Behcet Syndrome](#)
- [Biliary Tract Neoplasms](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)

- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Conduct Disorder](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Helicobacter Infections](#)
- [Hematologic Diseases](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Infant](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Leishmaniasis](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)

- [Maduromycosis](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Neoplasm Invasiveness](#)
- [Obstetric Labor](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Papillomavirus Infections](#)
- [Periodontal Diseases](#)
- [Periodontitis](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Respiratory Syncytial Virus Infections](#)
- [Sarcoma](#)
- [Stomach Neoplasms](#)
- [Tuberculosis](#)
- [Uterine Cervical Neoplasms](#)
- [Viremia](#)
- [Waldenstrom Macroglobulinemia](#)

- [Werner syndrome](#)