

Recombinant Human CXCR2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CXCR2-5491H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CXCR2 MS Standard C13 and N15-labeled recombinant protein (NP_001548) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. Alternatively spliced variants, encoding the same protein, have been identified.
Molecular Mass	40.8 kDa

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AA Sequence	MEDFNMESDSFEDFWKGEDLSNYSYSTLPFFLLDAAPCEPESLEINKYFVVIYALV FLLSLLGNSLVMLVILYSRVGRSVTDVYLLNLALADLLFALTLPWAASKVNGWIFGTF LCKVVSLLKEVNFYSGILLACISVDRYLAIVHATRTLTQKRYLVKFICLSIWGLSLLLAL PVLLFRRTVYSSNVSPACYEDMGNNTANWRMLLRILPQSFGFIVPLLIMLFCYGFTLR TLFKAHMGQKHRAMRVIFAVVLIFLLCWLPPYNLVLLADTLMRTQVIQETCERRNHIDR ALDATEILGILHSCLNPLIYAFIGQKFRHGLLKILAIHGLISKDSLPLKDSRPSFVGSSSGH TSTTLTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	CXCR2 C-X-C motif chemokine receptor 2 [Homo sapiens (human)]
Official Symbol	CXCR2
Synonyms	CXCR2; chemokine (C-X-C motif) receptor 2; IL8RB, interleukin 8 receptor, beta; C-X-C chemokine receptor type 2; CD182; CMKAR2; CXCR-2; CXCR-2; IL-8R B; GRO/MGSA receptor; IL-8 receptor type 2; interleukin 8 receptor B; chemokine (CXC) receptor 2; interleukin 8 receptor, beta; interleukin 8 receptor type 2; interleukin-8 receptor type B; CXCR2 gene for IL8 receptor type B; high affinity interleukin-8 receptor B; IL8R2; IL8RA; IL8RB; CDw128b;

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Gene ID	3579
mRNA Refseq	NM_001557
Protein Refseq	NP_001548
MIM	146928
UniProt ID	P25025
SDS-PAGE	