

## Active Recombinant Rat Chemokine (C-X-C motif) Ligand 5

**Cat. No.** Cxcl5-445R    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b>    | Recombinant Rat Cxcl5 protein was expressed in E. coli. Ala38-Arg125& Ala38-Lys117.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>             | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Length</b>      | 38-125 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>         | Cxcl5 is a chemokine originally cloned from LPS stimulated mouse fibroblasts. Rat Cxcl5 shares approximately 74% amino acid (aa) sequence identity with mouse Cxcl5 and is likely the rat orthologue to mouse Cxcl5. Rat Cxcl5 cDNA encodes a 130 aa residue precursor with a predicted 37 aa residue signal peptide and a 93 aa residue mature protein. Among human CXC chemokines, rat Cxcl5 is most closely related to human GCP2 and ENA78. Rat Cxcl5 also differs from these two human proteins by having an extended carboxy terminus. |
| <b>Form</b>                | Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA with BSA as a carrier protein.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>N-terminal Sequence</b> | Ala38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Weight</b>    | 10.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Activity</b>            | Measured by its ability to chemoattract human CXCR2 transfected BaF3 mouse proB                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | cells. The ED50 for this effect is typically 0.03-0.15 µg/mL.                                                                                                                                                                                                    |
| <b>Endotoxin Level</b> | <1.0 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                               |
| <b>Purity</b>          | >97%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                                                                                      |
| <b>Reconstitution</b>  | Reconstitute at 100 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.                                                                                                                                                                 |
| <b>Storage</b>         | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, 20 to 70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, 20 to 70°C under sterile conditions after reconstitution. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Cxcl5 chemokine (C-X-C motif) ligand 5 [ <i>Rattus norvegicus</i> ]                                                                                                                                         |
| <b>Official Symbol</b> | Cxcl5                                                                                                                                                                                                       |
| <b>Synonyms</b>        | Cxcl5; chemokine (C-X-C motif) ligand 5; Cxcl6; C-X-C motif chemokine 5; cytokine LIX; CXC chemokine LIX; small-inducible cytokine B5; chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) |
| <b>Gene ID</b>         | 60665                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_022214                                                                                                                                                                                                   |
| <b>Protein Refseq</b>  | NP_071550                                                                                                                                                                                                   |
| <b>UniProt ID</b>      | P97885                                                                                                                                                                                                      |

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| <b>Chromosome Location</b> | 14                                                                                                                                                                                                                                                                                           |
| <b>Pathway</b>             | Chemokine receptorsbind chemokines; Chemokine signaling pathway; Class A/1 (Rhodopsin-likereceptors); G alpha (i) signalling events; GPCR downstream signaling; GPCRligand binding; Peptide ligand-binding receptors; Pertussis; Rheumatoidarthritis; Signal Transduction; Signaling by GPCR |
| <b>Function</b>            | chemokine activity                                                                                                                                                                                                                                                                           |

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