

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

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

### SPECIFICATION

<b>Product Overview</b>	RecombinantRat Cxcl5 protein was expressed in E. coli. Ala38-Arg125& Ala38-Lys117.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	38-125 a.a.
<b>Description</b>	Cxcl5 is a chemokine originallycloned from LPS stimulated mouse fibroblasts. Rat Cxcl5 sharesapproximately 74% amino acid (aa) sequence identity with mouse Cxcl5 and islikely the rat orthologue to mouse Cxcl5. Rat Cxcl5 cDNAencodes a 130 aa residue precursor with a predicted 37 aa residue signalpeptide and a 93 aa residue mature protein. Among human CXC chemokines, rat Cxcl5 is mostclosely related to human GCP2 and ENA78. Rat Cxcl5 alsodiffers from these two human proteins by having an extended carboxyterminus.
<b>Form</b>	Lyophilized from a0.2 um filtered solution in Acetonitrile and TFA with BSA as a carrierprotein.
<b>N-terminalSequence</b>	Ala38
<b>MolecularWeight</b>	10.1 kDa
<b>Activity</b>	Measuredby its ability to chemoattract human CXCR2 transfected BaF3 mouse proB

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA