

Recombinant Mouse Cxcl11 protein

Cat. No. Cxcl11-95M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cxcl11 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	79
Description	Chemokines are a group of small (approximately 8 to 14 kD), mostly basic, structurally related molecules that regulate cell trafficking of various types of leukocytes through interactions with a subset of 7-transmembrane, G protein-coupled receptors. Chemokines also play fundamental roles in the development, homeostasis, and function of the immune system, and they have effects on cells of the central nervous system as well as on endothelial cells involved in angiogenesis or angiostasis. Chemokines are divided into 2 major subfamilies, CXC and CC. This antimicrobial gene is a CXC member of the chemokine superfamily. Its encoded protein induces a chemotactic response in activated T-cells and is the dominant ligand for CXC receptor-3.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 10 mM Sodium Citrate, pH 4.0, with 600 mM NaCl.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using murine CXCR3 transfected 293 cells is in a concentration of 10-100 ng/ml.

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Molecular Mass	Approximately 9.1 kDa, a single non-glycosylated polypeptide chain containing 79 amino acids.
AA Sequence	FLMFKQGRCLCIGPGMKAVKMAEIEKASVIYPSNGCDKVEVIVTMKAHKRQRCLDPR SKQARLIMQAIEKKNFLRRQNM
Endotoxin	Less than 1 EU/g of rMu1-TAC/CXCL11 as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Cxcl11
Official Symbol	Cxcl11
Synonyms	CXCL11; chemokine (C-X-C motif) ligand 11; C-X-C motif chemokine 11; small-inducible cytokine B11; interferon-inducible T-cell alpha chemoattractant; small inducible cytokine subfamily B (Cys-X-Cys), member 11; Ip9; H174; Itac; b-R1; Cxc11; I-tac; Scyb11; Scyb9b; betaR1;

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Gene ID	56066
mRNA Refseq	NM_019494
Protein Refseq	NP_062367
UniProt ID	Q9JHH5

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