

Active GMP Recombinant Mouse Cxcl12 Protein, His-Tagged

Cat. No. Cxcl12-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP Recombinant Mouse Cxcl12 Protein, His-Tagged was expressed in Escherichia coli cell-derived in an animal component free process under cGMP guidelines.
Species	Mouse
Source	E.coli
Description	This gene encodes a member of the alpha chemokine protein family. The encoded protein is secreted and functions as the ligand for the G-protein coupled receptor, chemokine (C-X-C motif) receptor 4. The encoded protein plays a role in many diverse cellular functions, including embryogenesis, immune surveillance, inflammation response, tissue homeostasis, and tumor growth and metastasis. Alternative splicing results in multiple transcript variants.
Form	Lyophilized
Bio-activity	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR4. The ED50 for this effect is <0.5 ng/mL.
AA Sequence	MGKPVLSYRCPGRFFESHIANVKHLKILNTPNCALQIVARLKNNNRQVCIDPKLK WIQEYLEKALNK with polyhistidine tag at the C-terminus
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography

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Notes	Please use within one month after protein reconstitution.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

GENE INFORMATION

Gene Name	Cxcl12 chemokine (C-X-C motif) ligand 12 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Cxcl12
Synonyms	Pbsf; Sdf1; Tlsf; Tpar1; Scyb12
Gene ID	20315
mRNA Refseq	NM_001012477.2
Protein Refseq	NP_001012495.1
UniProt ID	A0A6P7RBN4

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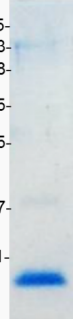
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