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Human recombinant CXCL12 (24-88) (C-X-C motif chemokine 12) protein, AF

Catalog Number: PROTP48061-8

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Overview

Product Name	Human recombinant CXCL12 (24-88) (C-X-C motif chemokine 12) protein, AF
Description	C-X-C motif chemokine 12 (CXCL12) also named stromal cell-derived factor 1 (SDF-1), which is a chemokine of the intercrine alpha family. CXCL12 is a 19.5kDa protein containing 167 amino acid residues. The function of CXCL12 include the hematopoiesis, angiogenesis embryogenesis, inflammation and angiogenesis. CXCL12 activated by the IL-1, TNF or lipopolysaccharide and induce the immune response in leukocytes.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 20 mM sodium citrate, 0.1 M NaCl, pH 4.5. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 8.55 kDa. The protein migrates as 10 kDa under reducing condition (SDS-PAGE analysis).

Activity

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Measure by its ability to chemoattract BaF3 cells transfected with human CXCR4. The ED_{50} for this effect is <0.5 ng/mL.

Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MVSLSYRCPCRFFESHVARANVKHLKILNTPNCALQIVARLKNNNRQVCIDPKLKWIQEYLEKALN with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

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Usage

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