

Mouse recombinant CXCL12 (C-X-C motif chemokine 12) protein, AF

Catalog Number: PROTP40224-6

Overview

Product Name	Mouse recombinant CXCL12 (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 7.8 kDa protein containing 70 amino acid residues. CXCL12 has a key role in controlling the immune responses which is often induced by the lipopolysaccharide or IL-1. CXCL12 also activates the leukocytes during inflammation. CXCL12 induces the migration and proliferation of cells like hematopoietic progenitor, stem cells and 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 1X PBS, pH 7.4. 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 8.97 kDa. The protein migrates below 8-11 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to chemoattract BaF3 cells transfected with human CXCR4. The ED₅₀ 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

MGKPVSLSYRCPCRFFESHIANVKHLKILNTPNCALQIVARLKNNNRQVCIDPKLKWIQEYLEKALNK 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 H₂O 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.

Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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