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Mouse recombinant CXCL1 (C-C motif chemokine ligand 1) protein, AF

Catalog Number: PROTP12850-4

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Overview

Product Name	Mouse recombinant CXCL1 (C-C motif chemokine ligand 1) protein, AF
Description	C-X-C motif chemokine 1 (CXCL1) also named Growth-regulated oncogene alpha (GROalpha), which is a chemokine of the intercrine alpha family. CXCL1 is a 7.5 kDa protein containing 68 amino acid residues. CXCL1 is often expressed in immune cells such as macrophage and neutrophils. CXCL1 plays an important role with immune responses and cancer progression. CXCL1 activates the cell signal transduction with casepas1 that affects the cell proliferation, differentiation and migration.
Size	5ug,20ug,100ug
Tag	Tag Free
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 50 mM Tris and 150 mM NaCl, pH 8.5. 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

>95% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 7.45 kDa. The protein migrates below 11 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to chemoattract BaF3 cells transfected with human CXCR2. The ED_{50} for this effect is <15 ng/mL.

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Endotoxin

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

Amino Acid Sequence

NELRCQCLQTMAGIHLKNIQSLKVLPSGPHCTQTEVIATLKNGREACLDPEAPLVQKIVQKMLKGVPK.

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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