

Recombinant Mouse CXCL1 protein(His Tag)

Catalog Number:PKSM041463



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms	Growth-Regulated Alpha Protein;C-X-C Motif Chemokine 1;GRO-Alpha(1-73);Melanoma Growth Stimulatory Activity;MGSA;Neutrophil-Activating Protein 3;NAP-3;CXCL1;GRO;GRO1;GROA;MGSA;SCYB1
Species	Mouse
Expression Host	E.coli
Sequence	Asn 29-Lys 96
Accession	P12850
Calculated Molecular Weight	7.5 kDa
Observed molecular weight	11 kDa
Tag	None
Bioactivity	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR2.The ED ₅₀ for this effect is < 15 ng/mL.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.1 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 50 mM Tris, 150 mM NaCl, pH 8.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Background

Growth-regulated alpha protein (CXCL1,KC), is a member of the alpha chemokine subfamily, was initially identified as an immediate early gene induced in mouse fibroblasts by platelet-derived growth factor. The N-terminal processed form KC(5-72) of the protein is produced by proteolytic cleavage after secretion from bone marrow stromal cells, and shows a highly enhanced hematopoietic activity. Mouse KC shows approximately 63% identity to that of mouse MIP-2. KC is also approximately 60% identical to the human GROs. It has been suggested that mouse KC and MIP-2 are the orthologs of the human GROs and rat CINC1s. Cxcl1 has chemotactic activity for neutrophils, and contributes to neutrophil activation during inflammation. Hematopoietic chemokine, in vitro, suppresses hematopoietic progenitor cell proliferation.

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