Datasheet for ABIN6699667

CXCL1 Protein

2 Images

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Overview

Quantity:	20 µg
Target:	CXCL1
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Mouse Gro-alpha /KC (CXCL1) Recombinant Protein
Purification:	Gro-alpha /KC (CXCL1) purity was determined to be greater than 97% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by its ability to chemoattract human neutrophils cells and is typically 10 -100 ng/mL.

Target Details

Target:	CXCL1
Alternative Name:	Cxcl1 (CXCL1 Products)
Background:	Synonyms: C-X-C motif chemokine 1, MGSAα, mKC, NAP-3, Platelet-derived growth factor-inducible protein KC, GRO1, rCINC, KC, Secretory protein N51

Target Details

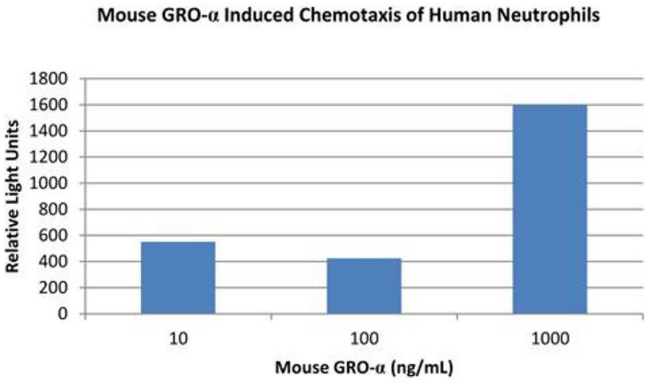
	Background: GROα, also known as CXCL1, is a chemokine thought to have mitogenic properties and chemoattract neutrophils. Secreted by macrophages, epithelial cells, neutrophils and melanomas, GROα signals through chemokine receptor, CXCR2, and has been implicated in the processes of spinal cord formation, inflammation, angiogenesis, tumorigenesis, and wound healing. Recombinant mouse GROα is a non-glycosylated protein, containing 72 amino acids, with a molecular weight of 7.8 kDa.
UniProt:	P12850
Pathways:	Autophagy

Application Details

Application Notes:	Application Note: Gro Alpha Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Gro Alpha in immunological assays. Other: User Optimized
Restrictions:	For Research Use only

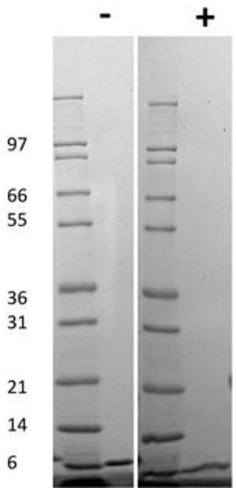
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 20 µL (20-200 µL)
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative
Storage:	-20 °C
Storage Comment:	Store vial at -20° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months



SDS-PAGE

Image 1. SDS-PAGE of Mouse Gro-alpha /KC (CXCL1) Recombinant Protein Bioactivity of Mouse Gro-alpha /KC (CXCL1) Recombinant Protein. Triplicate samples of primary human neutrophils from three donors were allowed to migrate to Mouse GRO-α/CXCL1 (10, 100 and 1000 ng/mL). After 30 minutes, cells that migrated were counted using a luminescent substrate and displayed on the bar graph above. Significant levels of migration over basal were seen in response to Mouse GRO-α/CXCL1/KC starting at 10 ng/mL.



SDS-PAGE

Image 2. SDS-PAGE of Mouse Gro-alpha /KC (CXCL1) Recombinant Protein SDS-PAGE of Mouse Gro-alpha /KC (CXCL1) Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Mouse GRO-α/CXCL1 in non-reducing conditions . Lane 3: Molecular weight marker. Lane 4: 1 µg Mouse GRO-α/CXCL1 in reducing conditions (+). Mouse GRO-α/CXCL1 has a predicted MW of 7.8 kDa.