

Datasheet for ABIN6699663

CXCL1 Protein**2** Images[Go to Product page](#)

Overview

Quantity:	25 µg
Target:	CXCL1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Gro Alpha (CXCL1) Recombinant Protein
Purification:	Gro Alpha (CXCL1) purity was determined to be greater than 98% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the ability to chemoattract human neutrophils at concentrations between 10-100 ng/mL.

Target Details

Target:	CXCL1
Alternative Name:	CXCL1 (CXCL1 Products)
Background:	Synonyms: C-X-C motif chemokine 1, GRO-alpha(1-73) MGSAα, mKC, NAP-3, GRO1, rCINC Background: Growth Regulated Protein alpha (GROα), also known as CXCL1, is a chemokine

Target Details

thought to have mitogenic properties and chemoattract neutrophils. Secreted by macrophages, epithelial cells, neutrophils and melanomas, GRO α signals through chemokine receptor, CXCR2, and has been implicated in the processes of spinal cord formation, inflammation, angiogenesis, tumorigenesis, and wound healing. Recombinant human GRO α is a non-glycosylated protein, containing 73 amino acids, with a molecular weight of 7.9 kDa.

UniProt: [P09341](#)

Pathways: [Autophagy](#)

Application Details

Application Notes: Other: User Optimized
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.

Comment: Suggested_Applications: Cellular Assay
Other_Performance_Data:

Restrictions: For Research Use only

Handling

Format: Lyophilized

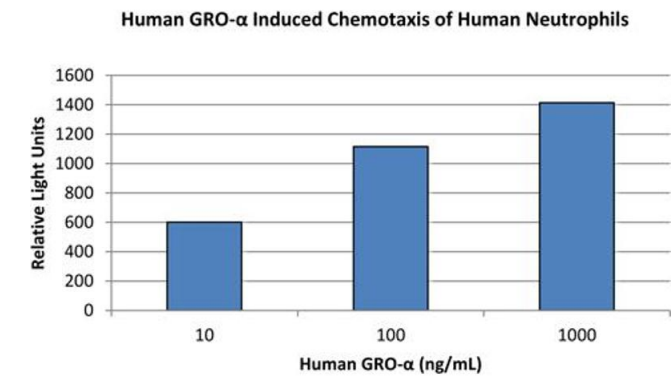
Reconstitution: Reconstitution_Buffer: Restore with deionized water (or equivalent)
Reconstitution_Volume: 25 μ L (25-250 μ L)

Buffer: Buffer: 0.1 % Trifluoroacetic acid
Stabilizer: None

Preservative: Without preservative

Storage: 4 °C, -20 °C

Storage Comment: Store vial at 4° 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.



SDS-PAGE

Image 1. SDS-PAGE of Human Gro Alpha (CXCL1) Recombinant Protein Bioactivity of Human Gro Alpha (CXCL1) Recombinant Protein. Triplicate samples of primary human neutrophils from three donors were allowed to migrate to Human 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 Human GRO-α/CXCL1 starting at 10 ng/mL.

SDS-PAGE

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

