GEMINI BIO-PRODUCTS
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Product Usage

Product: **Recombinant Mouse GROα (CXCL1)**
Cat #: 300-309P
Powder

Description	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. Alternate names: CXCL1, MGSAα, mKC, NAP-3, GRO1, rCINC, KC
MW	Non-glycosylated protein, containing 72 amino acids, with a molecular weight of 7.8 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	*E. coli*
Formulation	Recombinant mouse GROα is lyophilized with no additives.
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by its ability to chemoattract human neutrophils cells and is typically 10 -100 ng/mL.
Endotoxin Level	Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein.
AA Sequence	APIANELRCQ CLQTMAGIHL KNIQSLKVLP SGPHCTQTEV IATLKNGREA CLDPEAPLVQ KIVQKMLKGV PK

Purity greater than 97% determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!