

CXCL1 Protein, Mouse, Recombinant (CHO)

General Information

Synonyms:	Growth Regulated Protein/Melanoma Growth Stimulatory Activity;GRO1;KC (murine);CXCL1; GRO α ;MGSA α ;NAP-3;CINC (rat)
Protein Construction:	Ala25-Lys96
Species:	Mouse
Expression Host:	CHO Cells
Accession:	P12850
Molecular Weight:	5~7 kDa (Reducing conditions)

QC Testing

Biological Activity:	Active at 10.0 ng/ml, measured in a tube formation assay using HUVEC cells.
Purity:	> 95% as determined by SDS-PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.2 EU/ μ g of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μ m filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

GRO- α /KC/CXCL1 coded by CXCL1 gene at chromosome 5 is approximately 63% identity to that of mouse MIP2. KC is also approximately 60% identical to the human GROs. Mouse KC is a potent neutrophil attractant and activator. The functional receptor for KC has been identified as CXCR2. Based on the pattern of KC expression in a number of inflammatory disease models, KC appears to have an important role in inflammation. KC was found to be involved in monocyte arrest on atherosclerotic endothelium and may also play a pathophysiological role in Alzheimer's disease.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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