



Recombinant Human GRO γ /MIP-2 β /CXCL3
(GRO gamma / Macrophage Inflammatory Protein-2 beta)

Catalog Number: 100-170

Accession Number: P19876

Specifications and Uses:

Alternate Names: MIP-2 β , CXCL3, GRO3

Description:

Growth Regulated Proteins (GRO) are a group of three proteins, GRO- α , - β and - γ , that are encoded by three distinct genes. All 3 GRO proteins can bind to the same receptors, but with differing affinities, and stimulate a number of biological responses including chemotaxis, angiogenesis, and growth regulation. More specifically, GRO γ (also called CXCL3), can act through chemokine receptor CXCR2 to promote monocyte migration and adhesion. Recombinant human GRO γ is a non-glycosylated protein, containing 73 amino acids, with a molecular weight of 7.9 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant human GRO γ is lyophilized from 10 mM Na₂PO₄, pH 7.5.

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.

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.

Protein Content and Purity (typically \geq 98%) determined by:

Reducing and Non-reducing SDS-PAGE, HPLC

Endotoxin Level:

Measured by kinetic LAL analysis and is typically \leq 1 EU/ μ g protein.

Biological Activity:

The activity is determined by the ability to chemoattract human neutrophils at concentrations between 10-100 ng/mL.

AA Sequence:

ASVVTELRCQ CLQTLQGIHL KNIQSVNVRS PGPHCAQTEV IATLKNGKKA CLNPASPMVQ KIIEKILNKG STN

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

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