

GRO beta/CXCL2 Protein, Mouse, Recombinant

General Information

Synonyms:	Gro-beta;GRO β ;GROB;melanoma growth stimulatory activity beta;GRO2;melanoma growth stimulatory activity β ;MGSA-beta;SCYB2;MIP2- α ;Gro- β ;chemokine ligand 2;MIP2-alpha;MGSA-b;cxcl2;Macrophage Inflammatory Protein-2- α ;Growth-regulated protein β ;Growth-regulated protein beta;GRO beta;MGSA- β ;Macrophage Inflammatory Protein-2-alpha;MIP2A;MIP-2;C-X-C motif chemokine 2
Protein Construction:	Ala28-Asn100
Species:	Mouse
Expression Host:	E. coli
Accession:	P10889
Molecular Weight:	10 KDa (reducing condition)
AA Sequence:	Ala28-Asn100

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.

Preparation and Storage

Reconstitution:
Reconstitute the lyophilized protein in distilled 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:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

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

C-X-C motif chemokine 2 (CXCL2,MIP-2) belongs to the intercrine alpha (chemokine Cx) family. It was originally

identified as a heparin-binding protein secreted from a murine macrophage cell line in response to endotoxin stimulation. The expression of mouse MIP-2 is stimulated by endotoxin. The mouse MIP-2 shares approximately 63% aa sequence identity with murine KC, another mouse alpha chemokine, which is induced by PDGF. It has been suggested that mouse KC and MIP-2 are the homologs of the human GROs and rat CINC3s. Chemotactic for human polymorphonuclear leukocytes but does not induce chemokinesis or an oxidative burst. The expression of MIP-2 was found to be associated with neutrophil influx in pulmonary inflammation and glomerulonephritis, suggesting that MIP-2 may contribute to the pathogenesis of inflammatory diseases.

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