

## GRO beta/CXCL2 Protein, Human, Recombinant V2

### General Information

Synonyms:	GROβ;MIP2A;MGSA-b;GRO β/CXCL2;MIP-2a;CINC-2a;chemokine (C-X-C motif) ligand 2;MIP2;SCYB2;GRO2
Protein Construction:	Ala35-Asn107
Species:	Human
Expression Host:	E. coli
Accession:	P19875
Molecular Weight:	8 kDa (Reducing conditions)

### QC Testing

Biological Activity:	The EC 50 value of human GRO beta on Ca <sup>2+</sup> mobilization assay in CHO-K1/Gα15/hCXCR2 cells (human Gα15 and human CXCR2 stably expressed in CHO-K1 cells) is less than 200.0 ng/ml.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μm 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 μg/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

Human GRO-α, GRO-β (MIP-2α), and GRO-γ (MIP-2β) are products of three distinct, nonallelic human genes. GRO-β and GRO-γ share 90% and 86% amino acid sequence homology, respectively, with GRO-α. All three isoforms of GRO are CXC chemokines that can signal through the CXCR1 or CXCR2 receptors. GRO expression is inducible by serum or PDGF and/or by a variety of inflammatory mediators, such as IL-1 and TNF, in monocytes, fibroblasts, melanocytes and epithelial cells. In certain tumor cell lines, GRO is expressed constitutively. Similar to other alpha

chemokines, the three GRO proteins are potent neutrophil attractants and activators. In addition, these chemokines are also active toward basophils.

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