

# GRO- $\beta$ /CXCL2

Catalog # PVGS1097

## Product Information

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<b>Primary Accession Species</b>	<a href="#">P19875</a> Human
<b>Sequence</b>	Ala35-Asn107
<b>Purity</b>	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
<b>Endotoxin Level</b> <b>Biological Activity</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human CXCR2 transfected human 293 cells is in a concentration range of 10.0-100.0 ng/ml.
<b>Expression System</b>	E. coli
<b>Theoretical Molecular Weight</b>	7.9 kDa
<b>Formulation</b> <b>Reconstitution</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in 20 mM PB, pH 7.4, 50 mM NaCl. It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

## Additional Information

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<b>Gene ID</b>	2920
<b>Other Names</b>	C-X-C motif chemokine 2, Growth-regulated protein beta, Gro-beta, Macrophage inflammatory protein 2-alpha, MIP2-alpha, GRO-beta(5-73), GRO-beta-T, Hematopoietic synergistic factor, HSF, SB-251353, CXCL2, GRO2, GROB, MIP2A, SCYB2
<b>Target Background</b>	The three GRO cDNAs encode 107 amino acid precursor proteins from which the N-terminal 34 amino acid residues are cleaved to generate the mature GROs. There are no potential N-linked glycosylation sites in the amino acid sequences. 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. All three GROs can bind with high affinity to the IL-8 receptor type B.

## Protein Information

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<b>Name</b>	CXCL2
<b>Synonyms</b>	GRO2, GROB, MIP2A, SCYB2
<b>Function</b>	Produced by activated monocytes and neutrophils and expressed at sites of inflammation. Hematoregulatory chemokine, which, in vitro, suppresses hematopoietic progenitor cell proliferation. GRO-beta(5-73) shows a highly enhanced hematopoietic activity.
<b>Cellular Location</b>	Secreted.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.