

## Recombinant Human Growth Regulated Protein-gamma (rh GRO-gamma / CXCL3 / MIP-2b)

**Synonyms:** Macrophage inflammatory protein 2-beta, MIP2B, SCYB3, CINC-2b, MGSA gamma.

**Introduction:** GRO-gamma is a small cytokine belonging to the CXC chemokine family that is also known as GRO-gamma controls migration and adhesion of monocytes and mediates its effects on its target cell by interacting with a cell surface chemokine receptor called CXCR2. The gene for GRO-gamma is located on chromosome 4 in a cluster of other CXC chemokines.

**Description:** Recombinant human GRO-gamma produced in E.Coli is a single, non-glycosylated polypeptide chain containing 73 amino acids and having a molecular mass of 7.9 kDa. rh GRO-gamma is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*.

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

**Formulation:** The protein was lyophilized with no additives.  
The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized rh GRO-gamma in sterile H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rh GRO-gamma although stable at room temperature for 3 weeks, should be stored desiccated below -18° C . Upon reconstitution rh GRO-gamma should be stored at 4° C between 2-7 days and for future use below -18°. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Purity:** Greater than 98.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

**Amino acid sequence:** The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Ser-Val-Val-Thr.

**Biological Activity:** The biological activity is calculated by its ability to chemoattract CXCR2 transfected 293 cells using 10.0 - 100.0 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11343722
<i>medium</i>	10 µg	Cat.N°	11343723

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