



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



## GRO-gamma (CXCL3), human recombinant (rHuGRO-g)

**Catalog No:** 94850  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Macrophage inflammatory protein 2-beta, MIP2-beta, CXCL3, Growth-regulated protein gamma, GRO-gamma, GRO-gamma(1-73), GRO3, GROg, MIP2B, SCYB3, MIP-2b, CINC-2b, MGSA gamma

### Background

Chemokine (C-X-C motif) ligand 3 (CXCL3) is a small cytokine belonging to the CXC chemokine family that is also known as GRO3 oncogene (GRO3), GRO protein gamma (GROg) and macrophage inflammatory protein-2-beta (MIP2b). CXCL3 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 CXCL3 is located on chromosome 4 in a cluster of other CXC chemokines.

### Description

GRO-g human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 73 amino acids and having a molecular mass of 7902 Dalton. CXCL3 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

The protein was lyophilized with no additives.

### Solubility

It is recommended to reconstitute the lyophilized CXCL3 in sterile 18 M $\Omega$ -cm H<sub>2</sub>O not less than 100  $\mu$ g/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized GRO-gamma, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL3 should be stored at 4°C between 2-7 days and for future use below -18°C. 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.

### Activity

The Biological activity is calculated by its ability to chemoattract CXCR2 transfected 293 cells using 10 - 100 ng/ml corresponding to a specific activity of 10,000 - 100,000 IU/mg.

### Usage

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