

Recombinant Human Growth Regulated Protein-gamma/CXCL3

Information

Gene ID	2921
Accession #	P19876
Alternate Names	GRO-gamma, MIP2-beta
Source	Escherichia coli.
M.Wt	Approximately 7.9 kDa, a single non-glycosylated polypeptide chain containing 73 amino acids.
AA Sequence	ASVVTCLRCQ CLQTLQGIHL KNIQSVNVRS PGPHCAQTEV IATLKNGKKA CLNPASPMVQ KIEKILNKG STN
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	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 10-100 ng/ml.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10µg	100µg	500µg
Recombinant Human Growth Regulated Protein-gamma/CXCL3	10µg	100µg	500µg

Use a manual defrost freezer and avoid repeated freeze-thaw cycles

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuGRO-γ/CXCL3 as determined by LAL method.

Description

CXCL3, also named GRO- γ , is belonging to the CXC chemokine family and encoded by the gene CXCL3. CXCL3/GRO- γ shares 86 % amino acid sequence with CXCL1/GRO- α . All three human GROs (GRO- α , GRO- β , GRO- γ) are members of the intercrine alpha (chemokine C-X-C) subfamily of chemokines. This chemokine is secreted by monocytes and macrophages. The functional receptor for CXCL3 has been identified as CXCR2. Similar to other GRO proteins, CXCL3 is potent neutrophil attractants and activators. CXCL3 plays a role in inflammation and exert its effects on endothelial cells in an autocrine fashion. All three GROs can bind with high affinity to the IL-8 receptor type B.

Reference

1. Haskill S, Peace A, Morris J, et al. 1990. Proc Natl Acad Sci U S A. 87:7732-6
2. Tsai HH, Frost E, To V, et al. 2002. Cell. 110:373-83
3. Smith DF, Galkina E, Ley K, et al. 2005. Am J Physiol Heart Circ Physiol. 289:H1976-84
4. Wuyts A, Govaerts C, Struyf S, et al. 1999. Eur J Biochem. 260:421-9.

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