



Product Data Sheet

Cat # RP-1014

Recombinant Human GRO-gamma (CXCL3)

Size: 10 ug

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 (GROγ) and macrophage inflammatory protein-2-beta (MIP2β). 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.

Usage:

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Source: *Escherichia Coli*. GRO-Gamma 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. The CXCL3 is purified by proprietary chromatographic techniques. The protein was lyophilized with no additives.

Applications and Suggested Dilutions: Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. It is recommended to reconstitute the lyophilized CXCL3 in sterile 18MΩ-cm H₂O not less than 100μg/ml, which can then be further diluted to other aqueous solutions. Users must optimize the appropriate concentration and conditions for each assay.

Storage and 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). If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage. **Please prevent freeze-thaw cycles.**

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

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