

GRO-beta (CXCL2), Human Recombinant

CATALOG NUMBER: CGR-309-010P, 10 µg

Synonyms	Macrophage inflammatory protein 2-alpha, MIP2-alpha, CXCL2, Growth-regulated protein beta, Gro-beta, chemokine (C-X-C motif) ligand 2, GRO2, GROb, MIP2, MIP2A, SCYB2, MGSA-b, MIP-2a, CINC-2a, MGSA beta.
Introduction	Chemokine (C-X-C motif) ligand 2 (CXCL2) is a small cytokine belonging to the CXC chemokine family that is also called macrophage inflammatory protein 2-alpha (MIP2-alpha), Growth-regulated protein beta (Gro-beta) and Gro oncogene-2 (Gro-2). CXCL2 is 90% identical in amino acid sequence as a related chemokine, CXCL1. This chemokine is secreted by monocytes and macrophages and is chemotactic for polymorphonuclear leukocytes and hematopoietic stem cells. The gene for CXCL2 is located on human chromosome 4 in a cluster of other CXC chemokines. CXCL2 mobilizes cells by interacting with a cell surface chemokine receptor called CXCR2.
Description	GRO-Beta Human Recombinant produced in <i>E.coli</i> is a single, non-glycosylated, polypeptide chain containing 73 amino acids and having a molecular mass of 7908 Dalton. The CXCL2 is purified by proprietary chromatographic techniques.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro-Leu-Ala-Thr.
Biological Activity	The Biological activity is calculated by its ability to chemoattract CXCR2 transfected 293 cells using 10.0-100.0 ng/ml.
Source	<i>Escherichia coli</i>
Size	10 µg lyophilized
Storage	Although lyophilized CXCL2 is stable at room temperature for 3 weeks, it should be stored desiccated below -18°C. It is recommended to reconstitute the lyophilized GRO-beta Human in sterile H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Upon reconstitution, CXCL2 should be stored at 4°C between 2-7 days and below -18°C for future use. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.
Purity	> 98% pure by SDS-PAGE and RP-HPLC.