

Recombinant Human CXCL2 protein

Cat. No. CXCL2-476H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CXCL2 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	73
Description	CXCL2, also named GRO-β, is belonging to the CXC chemokine family. It is encoded by the gene CXCL2 in humans. CXCL2/GRO-β shares 90 % 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 chemokine. This chemokine is secreted by monocytes and macrophages. The functional receptor for CXCL2 has been identified as CXCR2. CXCL2 is chemotactic for polymorphonuclear leukocytes and hematopoietic stem cells. Similar to other GRO proteins, CXCL2 is potent neutrophil attractants and activators. In addition, it is also active toward basophils.
Form	Lyophilized from a 0.2μm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.
Bio-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.
Molecular Mass	Approximately 7.9 kDa, a single non-glycosylated polypeptide chain containing 73

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	amino acids.
AA Sequence	APLATELRCQCLQTLQGIHLKNIQSVKVKSPGPHCAQTEVIATLKNGQKACLNPAASP MVKKIIEKMLKNGKSN
Endotoxin	Less than 1 EU/g of rHuGRO- β /CXCL2 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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 $\leq$ -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	CXCL2
Official Symbol	CXCL2
Synonyms	CXCL2; chemokine (C-X-C motif) ligand 2; GRO2, GRO2 oncogene; C-X-C motif chemokine 2; CINC 2a; GRO β ; MGSA β ; MIP 2a; SCYB2; gro-beta; MGSA beta; MIP2-alpha; GRO2 oncogene; growth-regulated protein beta; macrophage inflammatory protein 2-alpha; melanoma growth stimulatory activity beta; GRO2; MIP2; MIP2A; MGSA-b; MIP-2a; CINC-2a;

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Gene ID	2920
mRNA Refseq	NM_002089
Protein Refseq	NP_002080
MIM	139110
UniProt ID	P19875

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