

GRO-beta (CXCL2) Recombinant Protein | CXCL2 recombinant protein

Mouse GRO-beta (CXCL2) Recombinant

CATALOG #	HOST
AAA76112	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

GRO-beta (CXCL2); Mouse GRO-beta (CXCL2) Recombinant; Mouse GRO-b Recombinant; GRO-beta; GROg; cxcl2; mip2; mip-2; CXCL2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant GRO-beta/CXCL2 was lyophilized from a 0.2um filtered concentrated (1mg/ml) solution in 20mM Tris, pH 8.0.
Sequence	MAPPTCRLLS AALVLLLLLA TNHQATGAVV ASELRCQCLK TLPRVDFKNI QSLSVTPPGP HCAQTEVIAT LKGGQKVCLD PEAPLVQKII QKILNKGKAN
Sequence Length	100
Domain	IL8
Host Note	Optimized DNA sequence encoding mouse GRO-beta CXCL2 mature chain was expressed in Escherichia Coli.
Biological Activity	Determined by its ability to chemoattract transfected CXCR2 cells using a concentration range of 10-100 ng/ml.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers
Molecular Weight Note	Native mouse GRO-beta is generated by the proteolytic removal of the signal peptide and propeptide. The molecule has a calculated molecular mass of approximately 8 kDa. Recombinant GRO-beta is a disulfide-linked homodimeric protein consisting of 74 amino acid residue subunits, and migrates as an approximately 8 kDa protein under non-reducing and reducing conditions in SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable for at least 1 year from date of receipt at -20 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2 degree - 8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CXCL2 recombinant protein	Growth regulated oncogene- gamma belongs to the family of chemotytic cytokines called chemokines. It is identical with MGSA (melanoma growth stimulatory activity) and the new designation is CXCL3. This factor is known mainly because of its chemotactic activity. GRO expression is inducible by serum or PDGF and/or by a variety of inflammatory mediators, such as IL-1 and TNF, in monocytes, fibroblasts, melanocytes and epithelial cells. In certain tumor cell lines, GRO is expressed constitutively. Similar to other alpha chemokines, the three GRO proteins are potent neutrophil attractants and activators. In addition, these chemokines are also active toward basophils. All three GROs can bind with high affinity to the IL-8 receptor type B.
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Product Categories/Family for CXCL2 recombinant protein	Cytokines
References	• cxcl1 regulates pulmonary host defense to klebsiella infection via CXCL2, cxcl5, nf-b, and mapks .J. Immunol., Nov 2010; 185: 6214 - 6225. • identification of two novel chemokines (ccl2 and CXCL2) in b-chronic lymphocytic leukaemia (b-cll) and prolonged survival of primary b-cll cells in vitro .Blood (ASH Annual Meeting Abstracts), Nov 2008; 112: 3157. • toll-like receptor 4 ligation on intrinsic renal cells contributes to the induction of antibody-mediated glomerulonephritis via cxcl1 and CXCL2 .J. Am. Soc. Nephrol., Jun 2007; 18: 1732 - 1739. • selective local pmn recruitment by cxcl1 or CXCL2/3 injection does not cause inflammatory pain .J. Leukoc. Biol., May 2006; 79: 1022 - 1032. • relative contribution of lix/cxcl5, kc/cxcl1, and mip22/CXCL2 in lps keratitis .Invest. Ophthalmol. Vis. Sci., May 2006; 47: 4361.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6677885
NCBI GeneID	20310
NCBI Accession #	NP_033166.1
NCBI GenBank Nucleotide #	NM_009140.2
UniProt Accession #	P10889
NCBI Official Full Name	C-X-C motif chemokine 2
UniProt Protein Name	C-X-C motif chemokine 2
UniProt Gene Name	Cxcl2
UniProt Synonym Gene Names	Mip-2; Mip2; Scyb2; MIP2
UniProt Entry Name	CXCL2_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cxcl2-recombinant-protein-e-coli/76112>