

Active Recombinant Rat Cxcl1 Protein

Cat. No. Cxcl1-187C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Cxcl1 Protein without tag was expressed in HEK 293.
Species	Rat
Source	HEK293
Description	GRO/MGSA/CXCL1 has chemotactic activity for neutrophils. It may play a role in inflammation and exerts its effects on endothelial cells in an autocrine fashion. All three isoforms of GRO are CXC chemokines that can signal through the CXCR1 or CXCR2 receptors. 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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Active, measured in a functional assay using HUVEC cells.
Molecular Mass	~7.8 kDa, observed by reducing SDS-PAGE.
AA Sequence	APVANELRCQCLQTVAGIHFKNIQSLKVMPPGPHCTQTEVIATLKNGREACLDPEAP MVQKIVQKMLKGVPK
Endotoxin	< 0.2 EU/μg, determined by LAL method.

 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

Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Rat GRO/MGSA/CXCL1 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Rat GRO/MGSA/CXCL1 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/mL.
GENE INFORMATION	
Gene Name	Cxcl1 chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha) [<i>Rattus norvegicus</i>]
Official Symbol	Cxcl1
Synonyms	CXCL1; chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha); growth-regulated alpha protein; gro; C-X-C motif chemokine 1; cytokine-induced neutrophil chemoattractant 1; platelet-derived growth factor-inducible protein KC; Gro1; CINC-1;
Gene ID	81503
mRNA Refseq	NM_030845
Protein Refseq	NP_110472
UniProt ID	G3V6C6

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