

Recombinant Human Chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha), MBP-tagged

Cat. No. CXCL1-162H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant CXCL1 protein was expressed in E.coli and purified by using conventional chromatography techniques, 52591,6 Da (481aa).
Species	Human
Source	E.coli
Description	CXCL1 is secreted by human melanoma cells, has mitogenic properties and is implicated in melanoma pathogenesis. CXCL1 is expressed by macrophages, neutrophils and epithelial cells, and has neutrophil chemoattractant activity. CXCL1 plays a role in spinal cord development by inhibiting the migration of oligodendrocyte precursors and is involved in the processes of angiogenesis, inflammation, wound healing, and tumorigenesis. This chemokine elicits its effects by signaling through the chemokine receptor CXCR2. The gene for CXCL1 is located on human chromosome 4 amongst genes for other CXC chemokines. An initial study in mice showed evidence that CXCL1 decreased the severity of multiple sclerosis and may offer a neuro-protective function.
Sequences of amino acids	MARAALSAAP SNPRLLRVAL LLLLLVAAGR RAAGASVATE LRCQCLQTLQ GIHPKNIQSV NVKSPGPHCA QTEVIATLKN GRKACLNPAS PIVKKIIEKM LNSDKSN
Formulation	Supplied in phosphate buffered saline (PBS) and 30% glycerol, pH 7.4 and contains not preservatives.

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Applications	ELISA; WB; Antibody Production; Protein array
Testing protocols	10% SDS-PAGE stained with Coomassie Blue (CB), immunoblotting with anti-MBP (WB) and peptide fingerprinting by MALDI-TOF mass spectrometry
GENE INFORMATION	
Gene Name	CXCL1 chemokine (C-X-C motif) ligand1 (melanoma growth stimulating activity, alpha) [Homo sapiens]
Synonyms	Chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha); SCYB1; GROa MGSA-a; NAP-3; MGSA; GRO1; FSP; GRO1 oncogene (melanoma growth stimulating activity, alpha); GRO1 oncogene (melanoma growth-stimulating activity); fibroblast secretory protein; CXCL1; Growth-regulated alpha protein; C-X-C motif chemokine 1; GRO-alpha (1-73); Melanoma growth stimulatory activity; Neutrophil-activating protein 3; GRO; GROA; SCYB1; MGSA alpha; melanoma growth stimulatory activity alpha
Gene ID	2919
mRNA Refseq	NM_001511
Protein Refseq	NP_001502
MIM	155730
UniProt ID	P09341
Chromosome Location	4q21

Pathway	Amoebiasis; Chemokine signaling pathway; Cytokine-cytokine receptor interaction; Epithelial cell signaling in Helicobacter pylori infection; NOD-like receptor signaling pathway
Function	Chemokine activity; enzyme activator activity; growth factor activity; receptor binding

PDBrendering based on 1mgs. Available structures: 1mgs, 1msg, 1msh

