

Native Human CXCL1

Cat. No. CXCL1-27707TH Lot. No. (See product label)

SPECIFICATION

Product Overview Human GRO alpha.

Species Human

Source E.coli

Description

Chemokines are a group of small (approximately 8 to 14 kD), mostly basic, structurally related molecules that regulate cell trafficking of various types of leukocytes through interactions with a subset of 7-transmembrane, G protein-coupled receptors. Chemokines also play fundamental roles in the development, homeostasis, and function of the immune system, and they have effects on cells of the central nervous system as well as on endothelial cells involved in angiogenesis or angiostasis. Chemokines are divided into 2 major subfamilies, CXC and CC, based on the arrangement of the first 2 of the 4 conserved cysteine residues; the 2 cysteines are separated by a single amino acid in CXC chemokines and are adjacent in CC chemokines. CXC chemokines are further subdivided into ELR and non-ELR types based on the presence or absence of a glu-leu-arg sequence adjacent and N terminal to the CXC motif. ELR types are chemotactic for neutrophils, while non-ELR types are chemotactic for lymphocytes.

Form Lyophilised

Storage Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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Sequences of amino acids Recombinant Human GRO alpha (MGSA) is a 7.8 kDa protein containing 73 amino acid residues: ASVATELRCQCLQTLQGIHPKNIQSVNVKSPGPHCAQTEVIATLKN GRKACLNPASPIVKKIIEKLLNSDKSN

Sequence Similarities Belongs to the intercrine alpha (chemokine Cx-C) family.

GENE INFORMATION

Gene Name CXCL1 chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha) [Homo sapiens]

Official Symbol CXCL1

Synonyms CXCL1; chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha); fibroblast secretory protein , FSP, GRO1, GRO1 oncogene (melanoma growth stimulating activity, alpha) , MGSA; growth-regulated alpha protein; GROa; MGSA a; NAP 3; SCYB

Gene ID 2919

mRNA Refseq NM_001511

Protein Refseq NP_001502

MIM 155730

Uniprot ID P09341

Chromosome Location 4q13.3

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Pathway

Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Chemokine receptors bind chemokines, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem;

Function

chemokine activity; enzyme activator activity; growth factor activity; receptor binding;

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