

# Active Recombinant Human Chemokine (C-X-C Motif) Ligand 1, HlgG1 Fc-tagged, mutant

**Cat. No.** CXCL1-233H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b> | The extracellular domain of human CXCL1 (AAH11976.1)(Ala35-Asn107) is fused to the N-terminus of the Fc region of a mutant human IgG1 was expressed in CHO cell.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 35-107 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | This gene encodes a member of the CXC subfamily of chemokines. The encoded protein is a secreted growth factor that signal through the G-protein coupled receptor, CXC receptor 2. This protein plays a role in inflammation and as a chemoattractant for neutrophils. Aberrant expression this protein is associated with the growth and progression of certain tumors. A naturally occurring processed form of this protein has increased chemotactic activity. Alternate splicing results in coding and non-coding variants of this gene. A pseudogene of this gene is found on chromosome 4 |
| <b>Form</b>             | Lyophilized from 0.2µm-filtered solution in PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Bio-activity</b>     | Measured by its ability to induce myeloperoxidase.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 34KDa (monomer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | Ala35-Asn107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>        | <0.06 eu/μg="" as="" determined="" by="" lal="" test="">                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | >98%, by SDS-PAGE under reducing conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Stability</b>        | Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Reconstitution</b>   | Reconstitute at 100μg/ml in sterile PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Warning</b>          | Avoid freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene Name</b>        | CXCL1 chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha) [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b>  | CXCL1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>         | 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; SCYB1; MGSA alpha; GRO-alpha(1-73); C-X-C motif chemokine 1; fibroblast secretory protein; neutrophil-activating protein 3; melanoma growth stimulatory activity alpha; GRO1 oncogene (melanoma growth-stimulating activity); GRO1 oncogene (melanoma growth stimulating activity, alpha); FSP; GRO1; MGSA; NAP-3; MGSA-a; |
| <b>Gene ID</b>          | 2919                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>      | NM_001511                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>      | <a href="#">NP_001502</a>                                                                                                                                                                                                                                                                                                                                                                       |
| <b>MIM</b>                 | <a href="#">155730</a>                                                                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID</b>          | <a href="#">P09341</a>                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 4q13.3                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Pathway</b>             | 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; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; |
| <b>Function</b>            | chemokine activity; enzyme activator activity; growth factor activity; receptor binding;                                                                                                                                                                                                                                                                                                        |

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