

Product datasheet for **TP723735**

GRO alpha (CXCL1) (NM_001511) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Human chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha) (CXCL1 / GRO-alpha) |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | Human CXCL1, the region of Ala35 -Asn107, from gene Accession# NM_001511.2 |
| Tag: | Tag Free |
| Predicted MW: | 7.8 kDa |
| Concentration: | lot specific |
| Purity: | >98%, as determined by Coomassie stained SDS-PAGE. |
| Buffer: | 1 x PBS |
| Bioactivity: | Bioactivity was measured by its property to chemoattract human neutrophils in a dose dependent manner. |
| Endotoxin: | Less than 0.01 ng per µg protein as determined by the LAL method |
| Storage: | Store at -80°C. |
| Stability: | Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles. |
| RefSeq: | <u>NP_001502</u> |
| Locus ID: | 2919 |
| UniProt ID: | <u>P09341</u> |
| RefSeq Size: | 1184 |
| Cytogenetics: | 4q13.3 |
| RefSeq ORF: | 321 |
| Synonyms: | FSP; GRO1; GROa; MGSA; MGSA-a; NAP-3; SCYB1 |



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Summary:

This antimicrobial gene encodes a member of the CXC subfamily of chemokines. The encoded protein is a secreted growth factor that signals through the G-protein coupled receptor, CXC receptor 2. This protein plays a role in inflammation and as a chemoattractant for neutrophils. Aberrant expression of 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. [provided by RefSeq, Sep 2014]

Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Epithelial cell signaling in Helicobacter pylori infection, NOD-like receptor signaling pathway