

GCP-2/CXCL6
Catalog # PVGS1674**Specification**

GCP-2/CXCL6 - Product InformationPrimary Accession [P80162](#)**Species**
Human**Sequence**
Val43-Asn114**Purity**
> 98% as analyzed by SDS-PAGE
> 98% as analyzed by HPLC**Endotoxin Level**
< 1 EU/ µg of protein by LAL method**Biological Activity**
Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human neutrophils is in a concentration range of 10.0-50.0 ng/ml.**Expression System**
E. coli**Theoretical Molecular Weight**
7.9 kDaFormulation **Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.****Reconstitution**
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.**Storage & Stability**
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.**GCP-2/CXCL6 - Additional Information****Gene ID** 6372**Other Names**
C-X-C motif chemokine 6, Chemokine alpha 3, CKA-3, Granulocyte chemotactic protein 2, GCP-2, Small-inducible cytokine B6, Small-inducible cytokine B6, N-processed variant 1, Small-inducible cytokine B6, N-processed variant 2, Small-inducible cytokine B6, N-processed variant 3, CXCL6, GCP2, SCYB6

Target Background

Granulocyte chemotactic protein 2 (GCP-2) also known as Chemokine (C-X-C motif) ligand 6 (CXCL6) is a small cytokine belonging to the CXC chemokine family. As its former name suggests, GCP-2 is a chemoattractant for neutrophilic granulocytes. Among human CXC chemokines, GCP2 is most closely related to ENA78 (78% amino acid (aa) sequence identity in the mature peptide region and 86% identity in the signal sequence). The structure and sequence of the genes for human GCP2 and ENA78 also exhibit close similarity suggesting the two genes may have originated from a gene duplication. GCP2 can signal through the CXCR1 and CXCR2 receptors.

GCP-2/CXCL6 - Protein Information

Name CXCL6

Synonyms GCP2, SCYB6

Function

Chemotactic for neutrophil granulocytes. Signals through binding and activation of its receptors (CXCR1 and CXCR2). In addition to its chemotactic and angiogenic properties, it has strong antibacterial activity against Gram-positive and Gram-negative bacteria (90-fold-higher when compared to CXCL5 and CXCL7).

Cellular Location

Secreted.

GCP-2/CXCL6 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GCP-2/CXCL6 - Images