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GCP-2/CXCL6

Catalog # PVGS1403

Product Information

Primary Accession P80162
Species Human

Sequence Val43-Asn114

Purity > 98% as analyzed by SDS-PAGE

Endotoxin Level

Biological Activity The EC₅₀ value of human GCP-2/CXCL6 on Ca²⁺ mobilization assay in CHO-K1/

Gα15/hCXCR2 cells (human Gα15 and human CXCR2 stably expressed in

CHO-K1 cells) is less than 0.8 \(\textstyle g/ml. \)

Expression System CHO

Formulation Lyophilized after extensive dialysis against PBS.

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

ddH₂O or PBS up to 100 □g/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. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw

cycles.

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.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.