

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant GCP-2/CXCL6, Human

Catalog Number: BK0205-25µg

Source: CHO

Quantity: 25µg

Description:

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, GCP-2 is most closely related to ENA-78 (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 GCP-2 and ENA-78 also exhibit close similarity suggesting the two genes may have originated from a gene duplication. GCP-2 can signal through the CXCR1 and CXCR2 receptors. Recombinant human GCP-2/CXCL6 produced in CHO cells is a polypeptide chain containing 72 amino acids. A fully biologically active molecule, rhGCP-2/CXCL6 has a molecular mass of 9 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

9 kDa, observed by reducing SDS-PAGE.

Purity:

> 98% as analyzed by SDS-PAGE.

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 µg/ml.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

VLTELRCTCLRVTLRVNPKTIGKQLQVFPAG-
PQCSKVEVVASLKNKGQVCLDPEAP-
FLKKVIQKILDSGNKKN

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant human GCP-2/CXCL6 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, human GCP-2/CXCL6 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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