

DATASHEET
Version 20181206**GCP-2/CXCL6, Human****Cat. No.:** Z03256-25**Size:** 25.0 ug**Synonyms:** CXCL6, LIX (mouse), GCP-2**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, 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.

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.

Amino Acid Sequence:

00001 VLTELRLCTCL RVTLRVNPKT IGKLQVFPAG PQCSKVEVVA
00041 SLKNGKQVCL DPEAPFLKKV IQKILDSGNK KN

Source: CHO**Species:** Human

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.

Molecular Weight: 9 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 98% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant human GCP-2/CXCL6 remains stable up to 6 months at lower than -70°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.