

## Overview

<b>Synonyms</b>	CXCL6, LIX (mouse), GCP-2
<b>Description</b>	<p>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.</p> <p>Recombinant <b>human GCP-2/CXCL6</b> 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.</p>
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Biological Activity</b>	The EC <sub>50</sub> value of human GCP-2/CXCL6 on Ca <sup>2+</sup> mobilization assay in CHO-K1/G <sub>15</sub> /hCXCR2 cells (human G <sub>15</sub> and human CXCR2 stably expressed in CHO-K1 cells) is less than 0.8 µg/ml.
<b>Sequence</b>	VLTELRTCTCL RVTLRVNPKT IGKLQVFPAG PQCSKVEVVA SLKNGKQVCL DPEAPFLKKV IQKILDSGNK KN

## Properties

<b>Measured Molecular Weight</b>	9 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 98% as analyzed by SDS-PAGE.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>human GCP-2/CXCL6</b> 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.
<b>Note</b>	For research use only

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