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## Product Data Sheet

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Product Name: GCP-2 Human  
 Cat. No.: GP21105  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	C-X-C motif chemokine 6; Chemokine alpha 3; CKA-3; Granulocyte chemotactic protein 2; GCP-2; Small-inducible cytokine B6.		
Amino Acid Sequence	VLTELRACTCL RVTLRVNPKT IGKLQVFPAG PQCSKVEVVA SLKNGKQVCL DPEAPFLKKV IQKILDSGKN KN.		
Solubility	It is recommended to reconstitute the lyophilized GCP-2 in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	GCP-2 protein was lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.		

### Introduction

Granulocyte Chemotactic Protein 2 (CXCL6), also known as GCP-2, is a Chemotactic for neutrophil granulocytes. GCP-2 signals through binding and activation of its receptors (CXCR1 and CXCR2). GCP-2 has strong antibacterial activity against Gram-positive and Gram-negative bacteria In addition to its chemotactic and angiogenic property.

### 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 10-50 ng/ml corresponding to a specific activity of 20,000-100,000 IU/mg.

### Stability

Lyophilized GCP-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution GCP-2 should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a

**Caution: Product has not been fully validated for medical applications. For research use only.**

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carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

GCP-2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 72 amino acids and having a molecular mass of 7.9kDa.

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