

# Recombinant Human GCP-2

## Recombinant Protein

### Product Information

**Product No.:** G130

**Storage:** -20° to -70°C

### Product Description

#### Background:

Chemokine (C-X-C motif) ligand 6 (CXCL6) is a small cytokine belonging to the CXC chemokine family that is also known as granulocyte chemotactic protein 2 (GCP-2). As its former name suggests, CXCL6 is a chemoattractant for neutrophilic granulocytes.<sup>1,2</sup> It elicits its chemotactic effects by interacting with the chemokine receptors CXCR1 and CXCR2.<sup>2</sup> CXCL6 possesses antibacterial activity against Gram-positive and Gram-negative pathogenic bacteria of relevance to mucosal infections. CXCL6 causes membrane disruption in a dose-dependent manner. This is reduced in the presence of NaCl, which inhibits the binding of the peptide to the bacterial surface.<sup>3</sup> CXCL6, in addition to its chemotactic and angiogenic properties, is likely to contribute to direct antibacterial activity during localized infection and thus plays a role in innate immunity.

#### Known Reactivity Species:

Human

#### Expression Host:

E. coli Cells

#### Formulation

This recombinant protein was lyophilized from a 0.2 µm filtered solution in 30% acetonitrile (CH<sub>3</sub>CN) and 0.1% trifluoroacetic acid (TFA).

#### Purity

>97% by SDS-PAGE and analyzed by silver stain.

#### Endotoxin

<0.1 EU/µg as determined by the LAL method

#### Storage and Stability

This lyophilized protein is stable for six to twelve months when stored desiccated at -20 to -70 °C. After aseptic reconstitution, this protein may be stored at 2 to 8 °C for one month or at -20 to -70 °C in a manual defrost freezer.

#### Avoid Repeated Freeze Thaw Cycles

#### Country of Origin

USA

#### References

- 1) Van Damme, J. *et al.* (1993)*Biochemistry* 32: 10170
- 2) Van Damme, J. *et al.* (1997)*Biochemistry* 36: 2716
- 3) Linge, HM. *et al.* (2008)*Antimicrobial Agents And Chemotherapy* 52: 2599