

Animal-Free GCP-2/CXCL6 Protein, Human (His)

Cat. No.:	HY-P700048AF
Synonyms:	C-X-C motif chemokine 6; CKA-3; GCP-2; CXCL6; GCP2; SCYB6
Species:	Human
Source:	E. coli
Accession:	P80162 (V40-N114)
Gene ID:	6372
Molecular Weight:	Approximately 8.97 kDa

PROPERTIES

AA Sequence	V S A V L T E L R C T C L R V T L R V N P K T I G K L Q V F P A G P Q C S K V E V V A S L K N G K Q V C L D P E A P F L K K V I Q K I L D S G N K K N
Biological Activity	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR2. The ED ₅₀ for this effect is <10 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CXCL8, a chemotactic factor, serves as a pivotal mediator in the inflammatory response by attracting neutrophils, basophils, and T-cells to eliminate pathogens and safeguard the host from infections. This protein also plays a crucial role in activating neutrophils. Upon release in response to an inflammatory stimulus, CXCL8 exerts its effects by binding to the G-protein-coupled receptors CXCR1 and CXCR2, predominantly expressed in neutrophils, monocytes, and endothelial cells. The binding triggers the release of G-protein heterotrimer (alpha, beta, gamma subunits) from the CXCR1/CXCR2 receptor, leading to the activation of downstream signaling pathways, including PI3K and MAPK pathways. CXCL8's homodimeric structure facilitates its interactions, and it has been shown to interact with TNFAIP6, disrupting chemokine binding to glycosaminoglycans. This multifaceted role underscores the importance of CXCL8 in orchestrating immune responses during inflammation.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA