

IL-8/CXCL8 Protein, Cynomolgus (HEK293, C-His)

Cat. No.:	HY-P701079
Synonyms:	Interleukin-8; IL-8; GCP-1; MDNCF; MONAP; NAP-1; GCP/IL-8 protein IV; IL8/NAP1 form I; CXCL8; LECT; LUCT; LYNAP; NAF
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5TUL7 (A23-P100)
Gene ID:	102127272
Molecular Weight:	12-14 kDa

PROPERTIES

Biological Activity	Immobilized Cynomolgus IL-8, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-IL-8 Antibody, hFc Tag with the EC ₅₀ of 13.0ng/ml determined by ELISA.
Appearance	Solution.
Formulation	Supplied as a 0.22µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	IL-8/CXCL8 protein serves as a pivotal chemotactic factor, playing a central role in mediating inflammatory responses by attracting neutrophils, basophils, and T-cells to effectively clear pathogens and protect the host from infections. It also contributes significantly to neutrophil activation. Released in response to inflammatory stimuli, IL-8/CXCL8 exerts its effects by binding to G-protein-coupled receptors CXCR1 and CXCR2, primarily found in neutrophils, monocytes, and endothelial cells. The G-protein heterotrimer (alpha, beta, gamma subunits) constitutively binds to CXCR1/CXCR2 receptors, and activation by IL-8 leads to the release of beta and gamma subunits from Gα _i (GNAI2 in neutrophils) and subsequent activation of downstream signaling pathways, including PI3K and MAPK pathways. IL-8/CXCL8 forms homodimers, and this dimerization is disrupted by tick evasin-3. Furthermore, IL-8/CXCL8 interacts with TNFAIP6 via its Link domain, and this interaction interferes with chemokine binding to glycosaminoglycans, suggesting a regulatory role in modulating chemokine activity within the inflammatory microenvironment.
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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