# **BACE** MedChemExpress

# Product Data Sheet

## IL-8/CXCL8 Protein, Porcine

Cat. No.:	HY-P79178
Synonyms:	Interleukin-8; CXCL8; IL-8; Alveolar macrophage chemotactic factor I; AMCF-I; C-X-C motif chemokine 8; Chemokine (C-X-C motif) ligand 8; IL8; Interleukin 8
Species:	Porcine
Source:	E. coli
Accession:	CAA43461 (A26-Q104)
Gene ID:	396880
Molecular Weight:	Approximately 12.97 kDa

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Proteins

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AA Sequence	ARVSAELRCQ CINTHSTPFH PKFIKELRVI ESGPHCENSE IIVKLVNGKE VCLDPKEKWV QKKVVQIFLK RTEKQQQQQ
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu m$ filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 25 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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). I recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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

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

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