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Datasheet for ABIN2018161
IL-8 Protein (AA 28-99, Isoform 1)

Overview

Quantity:	50 µg
Target:	IL-8 (IL8)
Protein Characteristics:	Isoform 1, AA 28-99
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 20 ng/mL, measured by the FLIPR assay using CHO cells transfected with human CXCR1, the receptor of human CXCL8, corresponding to a specific activity of > 5x10 ⁴ units/mg.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	IL-8 (IL8)
Alternative Name:	Interleukin-8 (IL-8)/CXCL8 (IL8 Products)
Background:	Interleukin-8 is one of the first discovered chemokines, and belongs to the CXCL family, in which the first two conserved cysteines are separated by one residue. In vivo, IL-8 exists in two forms: 77 a.a. produced by endothelial cells, and the more active 72 a.a. produced by

Target Details

monocytes. The receptors of IL-8 are the seven-helical G-protein coupled receptors CXCR1 and CXCR2, exclusively expressed on neutrophils. The functions of IL-8 are to induce rapid changes in cellular shape, activate the integrins, and release the granule contents of neutrophils. Thus, IL-8 can enhance the antimicrobial actions of defense cells. Recombinant human Interleukin-8/CXCL8 (rhIL-8) produced in *E. coli* is a single non-glycosylated polypeptide chain containing 72 amino acids. A fully biologically active molecule, rhIL-8 has a molecular mass of 8.4 kDa analyzed by reducing SDS-PAGE.

Synonyms: CXCL8, monocyte-derived neutrophil chemotactic factor (MDNCF), neutrophil activating factor (NAF), NAP-1

Molecular Weight: 8.4 kDa, observed by reducing SDS-PAGE.

UniProt: [P10145](#)

Pathways: [TLR Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#), [ER-Nucleus Signaling](#), [Hepatitis C](#), [Autophagy](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant human Interleukin-8/CXCL8 (rhIL-8) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhIL-8 remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months