Datasheet for ABIN1096965

IL-8 Protein (AA 23-99)

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Overview

Quantity:	50 µg
Target:	IL-8 (IL8)
Protein Characteristics:	AA 23-99
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func)

Product Details

Purpose:	Recombinant Human Interleukin-8/IL-8 (Ala23-Ser99)
Sequence:	AVLPRSAKEL RCQCIKTYSK PFHPKFIKEL RVIESGPHCA NTEIIVKLSD GRELCLDPKE NWVQRVVEKF LKRAENS
Characteristics:	Recombinant Human Interleukin-8/IL-8 (3-79) produced in E. coli is a single non-glycosylated polypeptide chain containing 77 amino acids with a molecular mass of 8,904 Daltons.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	IL-8 (IL8)
Alternative Name:	Il-8-77 (IL8 Products)
Background:	Interleukin-8 (IL-8) belongs to the neutrophil-specific CXC family of chemokines. It is one of the initial cytokines released from a variety of cell types, including T cells, endothelial cells and fibroblasts, in response to an inflammatory stimulus and acts by recruiting neutrophils, T-cells and basophils to the site of inflammation. Elevated Interleukin-8 levels are associated with the onset of a variety of disease states. Alternative Names: Interleukin-8, IL-8, C-X-C Motif Chemokine 8, Emoctakin, Granulocyte Chemotactic Protein 1, GCP-1, Monocyte-Derived Neutrophil Chemotactic Factor, MDNCF, Monocyte-Derived Neutrophil-Activating Peptide, MONAP, Neutrophil-Activating Protein 1, NAP-1, Protei
Molecular Weight:	8.9 kDa
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

Comment:	Biological activity: Recombinant IL-8 (3-79) is fully biologically active when compared to standards.ED50 is less than 2 ng/ml as determined by its chemotaxis of hCXCR-2 transfected mouse BaF/3 cells.Specific Activity of 5.0 x 105 IU/mg.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Handling

	Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months