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Datasheet for ABIN7278690

IL-8 Protein (AA 23-99) (Fc Tag)

Overview

Quantity:	50 µg
Target:	IL-8 (IL8)
Protein Characteristics:	AA 23-99
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-8 protein is labelled with Fc Tag.

Product Details

Purpose:	IL-8 (human):Fc (human) (rec.) (non-lytic)
Specificity:	The extracellular domain of human IL-8 (aa 23-99) is fused to the N-terminus of the Fc region of a mutant human IgG1.
Characteristics:	<p>Protein. The extracellular domain of human IL-8 (aa 23-99) is fused to the N-terminus of the Fc region of a mutant human IgG1. Source: CHO cells. Endotoxin content: <0.06EU/µg protein (LAL test, Lonza). Lyophilized from 0.2µm-filtered solution in PBS. Purity: >98 % (SDS-PAGE).</p> <p>Interleukin-8 (IL-8) was originally discovered as a neutrophil chemotactic and activating factor and is a member of the alpha (CXC) subfamily of chemokines (including also platelet factor 4, GRO, IP-10, etc.). Many cell types, including monocyte/macrophages, T cells, neutrophils, fibroblasts, endothelial cells, keratinocytes, hepatocytes, chondrocytes and various tumor cell lines, produce IL-8 in response to a wide variety of proinflammatory stimuli such as exposure to IL-1, TNF, LPS and viruses. IL-8 has a wide range of other proinflammatory effects. It is a potent chemoattractant for neutrophils and causes degranulation of neutrophil specific granules and</p>

Product Details

azurophilic granules. IL-8 induces expression of the cell adhesion molecules CD11/CD18 and enhances the adherence of neutrophils to endothelial cells and subendothelial matrix proteins. Besides neutrophils, IL-8 is also chemotactic for basophils, T cells and eosinophils. IL-8 has been reported to be a co-mitogen for keratinocytes and was also shown to be an autocrine growth factor for melanoma cells. IL-8 was also reported to be angiogenic both in vivo and in vitro.

Purity: >98 % (SDS-PAGE)

Endotoxin Level: <0.06EU/μg protein (LAL test, Lonza).

Biological Activity Comment: Shows the biological function of the IL-8 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain.

Target Details

Target: IL-8 (IL8)

Alternative Name: IL-8 ([IL8 Products](#))

Background: Alternate Names/Synonyms: Interleukin-8, CXCL8, C-X-C Motif Chemokine 8, Emoctakin, GCP-1, LAI, MDNCF, MONAP, NAP-1, NCF, TCF

Product Description: Interleukin-8 (IL-8) was originally discovered as a neutrophil chemotactic and activating factor and is a member of the alpha (CXC) subfamily of chemokines (including also platelet factor 4, GRO, IP-10, etc.). Many cell types, including monocyte/macrophages, T cells, neutrophils, fibroblasts, endothelial cells, keratinocytes, hepatocytes, chondrocytes and various tumor cell lines, produce IL-8 in response to a wide variety of proinflammatory stimuli such as exposure to IL-1, TNF, LPS and viruses. IL-8 has a wide range of other proinflammatory effects. It is a potent chemoattractant for neutrophils and causes degranulation of neutrophil specific granules and azurophilic granules. IL-8 induces expression of the cell adhesion molecules CD11/CD18 and enhances the adherence of neutrophils to endothelial cells and subendothelial matrix proteins. Besides neutrophils, IL-8 is also chemotactic for basophils, T cells and eosinophils. IL-8 has been reported to be a co-mitogen for keratinocytes and was also shown to be an autocrine growth factor for melanoma cells. IL-8 was also reported to be angiogenic both in vivo and in vitro.

NCBI Accession: [NP_000575](#)

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

Concentration: Lot specific

Buffer: Lyophilized from 0.2µm-filtered solution in PBS.

Handling Advice: Avoid freeze/thaw cycles.

Storage: 4 °C,-20 °C

Storage Comment: Short Term Storage: +4°C

Long Term Storage: -20°C

Use & Stability: Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.