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Datasheet for ABIN7317015 IL-8 Protein (AA 28-99) (Fc Tag)

Image



Overview

Quantity:	100 µg
Target:	IL-8 (IL8)
Protein Characteristics:	AA 28-99
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-8 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human IL-8/CXCL8 Protein (aa 28-99, Fc Tag)
Sequence:	Ser 28-Ser 99
Characteristics:	A DNA sequence encoding the 72 amino acid residue form (Ser 28-Ser 99) of mature human IL8 (NP_000575.1) was fused with the Fc region of human IgG1 at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	IL-8 (IL8)
Alternative Name:	IL-8/CXCL8 (IL8 Products)
Background:	Background: Interleukin 8 (IL-8), also known as CXCL8, which is a chemokine with a defining

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CXC amino acid motif that was initially characterized for its leukocyte chemotactic activity, is
now known to possess tumorigenic and proangiogenic properties as well. This chemokine is
secreted by a variety of cell types including monocyte/macrophages, T cells, neutrophils,
fibroblasts, endothelial cells, and various tumor cell lines in response to inflammatory stimuli
(IL1, TNF, LPS, etc). In human gliomas, IL-8 is expressed and secreted at high levels both in vitro
and in vivo, and recent experiments suggest it is critical to glial tumor neovascularity and
progression. Levels of IL-8 correlate with histologic grade in glial neoplasms, and the most
malignant form, glioblastoma, shows the highest expression in pseudopalisading cells around
necrosis, suggesting that hypoxia/anoxia may stimulate expression. Interleukin (IL)-8/CXCL8 is
a potent neutrophil chemotactic factor. Accumulating evidence has demonstrated that various
types of cells can produce a large amount of IL-8/CXCL8 in response to a wide variety of
stimuli, including proinflammatory cytokines, microbes and their products, and environmental
changes such as hypoxia, reperfusion, and hyperoxia. Numerous observations have established
IL-8/CXCL8 as a key mediator in neutrophil-mediated acute inflammation due to its potent
actions on neutrophils. However, several lines of evidence indicate that IL-8/CXCL8 has a wide
range of actions on various types of cells, including lymphocytes, monocytes, endothelial cells,
and fibroblasts, besides neutrophils. The discovery of these biological functions suggests that
IL-8/CXCL8 has crucial roles in various pathological conditions such as chronic inflammation
and cancer. IL-8 has been associated with tumor angiogenesis, metastasis, and poor prognosis
in breast cancer. IL-8 may present a novel therapeutic target for estrogen driven breast
carcinogenesis and tumor progression.
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Synonym: 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, Protein 3-10C, T-Cell Chemotactic Factor, GCP1,IL8,Interleukin-8,LECT,LUCT,LYNAP,MDNCF,MONAP,NAF,NAP-1,NAP1

Molecular Weight:	35 kDa
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:

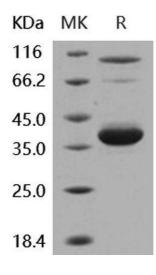
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.

Images



Western Blotting

Image 1.