

Human Interleukin-8 / IL8 (77 aa) (Endothelial)

Alternate names:	CXCL8, Emotakin, GCP1, Granulocyte chemotactic protein 1, MDNCF, MONAP, Monocyte-derived neutrophil chemotactic factor, Monocyte-derived neutrophil-activating peptide, NAP1, Neutrophil-activating protein 1, Protein 3-10C, T-cell chemotactic factor
Catalog No.:	PA082
Quantity:	5 µg
Background:	IL8 is a member of the CXC chemokine family. This family of small basic heparan-binding proteins are proinflammatory and primarily mediate the activation and migration of neutrophils into tissue from peripheral blood. This chemokine is one of the major mediators of the inflammatory response and is secreted by several cell types in response to an inflammatory stimulus. It functions as a chemoattractant, and is also a potent angiogenic factor. IL8 attracts neutrophils, basophils, and T-cells, but not monocytes. Cystic fibrosis (CF) is characterized by severe lung inflammation. The inflammatory process is believed to be caused by massive overproduction of the proinflammatory protein IL8, and the high levels of IL8 in the CF lung are therefore believed to be the central mechanism behind CF lung pathophysiology.
Uniprot ID:	P10145
NCBI:	9606
GeneID:	3576
Species:	Human
Source:	E. coli
Format:	State: Lyophilized purified protein without preservatives Purity: >98% pure by SDS-PAGE and HPLC analyses Endotoxin Level: < 0.1 ng per µg (1 EU/µg) Reconstitution: Restore in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 2-8°C for 1 week or -20°C for future use.
Description:	Recombinant Human IL-8 (endothelial-derived) is an 8.9 kDa protein containing 77 amino acid residues. AA Sequence: AVLPRSAKEL RCQCIKTYSK PFHPKFIKEL RVIESGPHCA NTEIIVKLSD GRELCCLDPKE NWWQVRVVEKF LKRAENS Biological Activity: Determined by its ability to chemoattract human peripheral blood neutrophils using a concentration range of 25.0-150.0 ng/ml. Molecular weight: 8.9 kDa (77 amino acids)
Add. Information:	Centrifuge the vial prior to opening!

Storage:

Store lyophilized at 2-8°C for 6 months or at -20°C long term.
After reconstitution store the antibody undiluted at 2-8°C for one month
or (in aliquots) at -20°C long term.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Proost P, Mortier A, Loos T, Vandercappellen J, Gouwy M, Ronsse I, et al. Proteolytic processing of CXCL11 by CD13/aminopeptidase N impairs CXCR3 and CXCR7 binding and signaling and reduces lymphocyte and endothelial cell migration. *Blood*. 2007 Jul 1;110(1):37-44. Epub 2007 Mar 15. PubMed PMID: 17363734.
2. Takahashi, M. Cloning and characterization of guinea pig CXCR1. *Molecular Immunology*, 2007, 44(5):878-88.
3. Zhu G, Li C, Cao Z. Inhibitory effect of flavonoid baicalin on degranulation of human polymorphonuclear leukocytes induced by interleukin-8: potential role in periodontal diseases. *J Ethnopharmacol*. 2007 Jan 19;109(2):325-30. Epub 2006 Aug 3. PubMed PMID: 16962273.
4. Bachelet I The inhibitory receptor IRp60 (CD300a) is expressed and functional on human mast cells *J Immunol.*, 2006, 175(12):7989-95.