

## Product datasheet

# Recombinant human IL-8 protein (Active) ab9631

### 2 References

#### Description

<b>Product name</b>	Recombinant human IL-8 protein (Active)	
<b>Biological activity</b>	The biological activity of this product is determined by its ability to chemoattract human peripheral blood neutrophils using a concentration range of 25.0 - 150.0 ng/ml.	
<b>Purity</b>	> 98 % SDS-PAGE. >98% HPLC analyses. Sterile filtered.	
<b>Endotoxin level</b>	< 1.000 Eu/μg	
<b>Expression system</b>	Escherichia coli	
<b>Accession</b>	<a href="#">P10145</a>	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	AVLPRSAKEL RCQCIKTYSK PFHPKFIKEL RVIESGPHCA NTEIVKLSLSD GRELCLDPKE NWWQRVVEKF LKRAENS	
<b>Predicted molecular weight</b>	9 kDa	
<b>Amino acids</b>	23 to 99	
<b>Additional sequence information</b>	Full length mature protein, without the signal peptide and the 'MDNCF-a' fragment.	

#### Specifications

Our [Abpromise guarantee](#) covers the use of **ab9631** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Functional Studies SDS-PAGE
<b>Form</b>	Lyophilized

#### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

**Reconstitution**

Reconstitute in sterile water to 0.1 to 1.0 mg/ml.

**General Info**

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**Function**

IL-8 is a chemotactic factor that attracts neutrophils, basophils, and T-cells, but not monocytes. It is also involved in neutrophil activation. It is released from several cell types in response to an inflammatory stimulus. IL-8(6-77) has a 5-10-fold higher activity on neutrophil activation, IL-8(5-77) has increased activity on neutrophil activation and IL-8(7-77) has a higher affinity to receptors CXCR1 and CXCR2 as compared to IL-8(1-77), respectively.

**Sequence similarities**

Belongs to the intercrine alpha (chemokine CxC) family.

**Post-translational modifications**

Several N-terminal processed forms are produced by proteolytic cleavage after secretion from at least peripheral blood monocytes, leukocytes and endothelial cells. In general, IL-8(1-77) is referred to as interleukin-8. IL-8(6-77) is the most prominent form.

**Cellular localization**

Secreted.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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