

Product datasheet

Recombinant human IL-8 protein ab49839

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Description

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|-----------------------------------|---|--|
| Product name | Recombinant human IL-8 protein | |
| Biological activity | Determined by its ability to chemoattract human peripheral blood neutrophils using a concentration range of 10.0-100.0 ng/mL. | |
| Purity | > 98 % SDS-PAGE. Greater than 98% by SDS-PAGE and HPLC analyses. | |
| Expression system | Escherichia coli | |
| Protein length | Protein fragment | |
| Animal free | No | |
| Nature | Recombinant | |
| Species | Human | |
| Sequence | SAKELRCQCIKTYSKPFHPK FIKELRVIES GPHCANTEII VKLSDGRELC LDPKENWVQR VVEKFLKRAE NS | |
| Predicted molecular weight | 8 kDa | |

Specifications

Our [Abpromise guarantee](#) covers the use of **ab49839** in the following tested applications.

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

| | |
|---------------------|---|
| Applications | Functional Studies Cellular Activation SDS-PAGE |
| Form | Lyophilized |

Preparation and Storage

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|------------------------------|---|
| Stability and Storage | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. This product is an active protein and may elicit a biological response in vivo, handle with caution. |
| Reconstitution | Reconstitute in water to a concentration of 0.1-1.0 mg/ml. |

General Info

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.

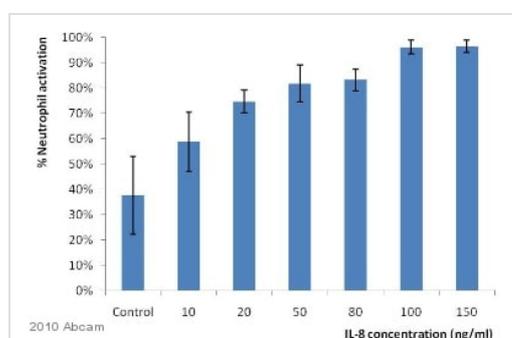
Post-translational modifications

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.

Images



ab49839 activating Neutrophils from whole Human blood. The cells express CD66b which was used to capture cells in microfluidic chip by anti-CD66b. The activation was detected with a Biotin-conjugated anti-Human polyclonal antibody.

Cellular activation - Recombinant Human IL-8 protein (ab49839)

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