

## Product datasheet

# Recombinant human Macrophage Inflammatory Protein 1 beta ab9676

### Overview

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| <b>Product name</b>   | Recombinant human Macrophage Inflammatory Protein 1 beta |
| <b>Protein length</b> | Full length protein                                      |

### Description

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|               |                  |
|---------------|------------------|
| <b>Nature</b> | Recombinant      |
| <b>Source</b> | Escherichia coli |

### Amino Acid Sequence

|                         |   |
|-------------------------|---|
| <b>Accession</b>        | <a href="#">P13236</a>  |
| <b>Species</b>          | Human   |
| <b>Sequence</b>         | APMGSDPPTA CCFSYTARKL PHNFVVDYYE<br>TSSLCSQPAV VFQTKRGKQV CADPSES WVQ<br>EYVDLELN |
| <b>Molecular weight</b> | 8 kDa   |
| <b>Amino acids</b>      | 24 to 92  |

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab9676** in the following tested applications.

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

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| <b>Biological activity</b> | The biological activity of this product is determined by its ability to chemoattract human monocytes using a concentration range of 5.0 - 20.0 ng/mL. |
|----------------------------|---|

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|---------------------|--------------------------------|
| <b>Applications</b> | Functional Studies<br>SDS-PAGE |
|---------------------|--------------------------------|

|                        |               |
|------------------------|---------------|
| <b>Endotoxin level</b> | < 0.100 Eu/μg |
|------------------------|---------------|

|               |   |
|---------------|---|
| <b>Purity</b> | > 99 % SDS-PAGE.<br>Sterile filtered. Greater than 99% by SDS-PAGE and HPLC analyses. |
|---------------|---|

|             |             |
|-------------|-------------|
| <b>Form</b> | Lyophilised |
|-------------|-------------|

### 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.<br><br>n/a<br><br>This product is an active protein and may elicit a biological response in vivo, handle with caution. |
| <b>Reconstitution</b>        | Please reconstitute in 100ul sterile water.   |

## General Info

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|---|---|
| <b>Function</b>                         | Monokine with inflammatory and chemokinetic properties. Binds to CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant MIP-1-beta induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form MIP-1-beta(3-69) retains the abilities to induce down-modulation of surface expression of the chemokine receptor CCR5 and to inhibit the CCR5-mediated entry of HIV-1 in T-cells. MIP-1-beta(3-69) is also a ligand for CCR1 and CCR2 isoform B. |
| <b>Sequence similarities</b>            | Belongs to the intercrine beta (chemokine CC) family.   |
| <b>Post-translational modifications</b> | N-terminal processed form MIP-1-beta(3-69) is produced by proteolytic cleavage after secretion from peripheral blood lymphocytes.   |
| <b>Cellular localization</b>            | Secreted.   |

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

## Our Abpromise to you: Quality guaranteed and expert technical support

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- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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