

## Product datasheet

# Recombinant human LD78 beta protein ab50065

### Description

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| <b>Product name</b>               | Recombinant human LD78 beta protein  |
| <b>Biological activity</b>        | Determined by its ability to chemoattract mouse BaF3 cells expressing the CCR5 receptor using a concentration range of 5.0-25.0 ng/mL. |
| <b>Purity</b>                     | > 98 % SDS-PAGE.<br>= 98% by SDS-PAGE gel and HPLC analyses.   |
| <b>Endotoxin level</b>            | < 1.000 Eu/μg  |
| <b>Expression system</b>          | Escherichia coli   |
| <b>Accession</b>                  | <b><u>P16619</u></b>   |
| <b>Protein length</b>             | Full length protein  |
| <b>Animal free</b>                | No   |
| <b>Nature</b>                     | Recombinant  |
| <b>Species</b>                    | Human  |
| <b>Sequence</b>                   | APLAADTPTA CCFSYTSRQI PQNFIADYFE<br>TSSQCSKPSV IFLTKRGRQV CADPSEEWVQ<br>KYVSDLELSA   |
| <b>Predicted molecular weight</b> | 8 kDa  |

### Specifications

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Our **Abpromise guarantee** covers the use of **ab50065** 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>Applications</b> | Functional Studies<br>SDS-PAGE |
| <b>Form</b>         | Lyophilized                    |

### Preparation and Storage

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| <b>Stability and Storage</b> | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.<br>This product is an active protein and may elicit a biological response in vivo, handle with caution. |
| <b>Reconstitution</b>        | Reconstitute to 1mg/ml in distilled water.  |

## General Info

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| <b>Function</b>                         | Chemotactic for lymphocytes and monocytes. Is a ligand for CCR1, CCR3 and CCR5. Is an inhibitor of HIV-1-infection. The processed form LD78-beta(3-70) shows a 20-fold to 30-fold higher chemotactic activity and is a very potent inhibitor of HIV-1-infection. LD78-beta(3-70) is also a ligand for CCR1, CCR3 and CCR5. |
| <b>Sequence similarities</b>            | Belongs to the intercrine beta (chemokine CC) family.  |
| <b>Post-translational modifications</b> | The N-terminal processed forms LD78-beta(3-70) and LD78-beta(5-70) are produced by proteolytic cleavage after secretion from peripheral blood monocytes. The cleavage to yield LD78-beta(3-70) is probably achieved by DPP4.   |
| <b>Cellular localization</b>            | Secreted.  |

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

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

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- 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

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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