

Recombinant Human Cathepsin E protein ab151880

| Description                |   |
|----------------------------|---|
| Product name               | Recombinant Human Cathepsin E protein   |
| Purity                     | > 95 % SDS-PAGE.<br>Purity is greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE. ab151880 was lyophilized from a 0.2 µM filtered solution.   |
| Endotoxin level            | < 1.000 Eu/µg   |
| Expression system          | HEK 293 cells   |
| Accession                  | <b><u>P14091-1</u></b>  |
| Protein length             | Full length protein   |
| Animal free                | No  |
| Nature                     | Recombinant   |
| Species                    | Human   |
| Sequence                   | SLHRVPLRRHPSLKKKLRARSQLSEFWKSHNLDMIQFTES<br>CSMDQSAKEP<br>LINYLDMEYFGTISIGSPPQNFTVIFDTGSSNLWVPSVYCTS<br>PACKTHSR<br>FQPSQSSTYSQPGQSFSIQYGTGSLSGIGADQVSVEGLTV<br>VGQQFGESV<br>TEPGQTFVDAEFDGILGLGYPSLAVGGVTPVFDNMMAQN<br>LVDLPMFSVYM<br>SSNPEGGAGSELIFGGYDHSFSGSLNWVPVTKQAYWQI<br>ALDNIQVGGTV<br>MFCSEGCQAMDTGTSLITGPSDKIKQLQNAIGAAPVDGEY<br>AVECANLNV<br>MPDVTFTINGVPYTLSPYATLLDFVDGMQFCSSGFQGLDI<br>HPPAGPLWI<br>LGDVFIRQFYSVFDRGNNRVGLAPAVPVDHHHHHH |
| Predicted molecular weight | 42 kDa including tags   |
| Amino acids                | 20 to 396   |
| Tags                       | His tag C-Terminus  |

Specifications

Our **Abpromise guarantee** covers the use of **ab151880** 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> | SDS-PAGE    |
|                     | HPLC        |
| <b>Form</b>         | Lyophilized |

## Preparation and Storage

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| <b>Stability and Storage</b> | Shipped at 4°C. Store at -20°C or -80°C.<br><br>pH: 5.50<br>Constituents: 0.39% MES, 0.88% Sodium chloride   |
| <b>Reconstitution</b>        | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilised protein in 1X PBS. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. For long term storage aliquot and store at < -20°C. |

## General Info

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| <b>Function</b>                         | May have a role in immune function. Probably involved in the processing of antigenic peptides during MHC class II-mediated antigen presentation. May play a role in activation-induced lymphocyte depletion in the thymus, and in neuronal degeneration and glial cell activation in the brain.   |
| <b>Tissue specificity</b>               | Expressed abundantly in the stomach, the Clara cells of the lung and activated B-lymphocytes, and at lower levels in lymph nodes, skin and spleen. Not expressed in resting B-lymphocytes.  |
| <b>Sequence similarities</b>            | Belongs to the peptidase A1 family.   |
| <b>Post-translational modifications</b> | Glycosylated. The nature of the carbohydrate chain varies between cell types. In fibroblasts, the proenzyme contains a high mannose-type oligosaccharide, while the mature enzyme contains a complex-type oligosaccharide. In erythrocyte membranes, both the proenzyme and mature enzyme contain a complex-type oligosaccharide.<br>Two forms are produced by autocatalytic cleavage, form I begins at Ile-54, form II begins at Thr-57. |
| <b>Cellular localization</b>            | Endosome. The proenzyme is localized to the endoplasmic reticulum and Golgi apparatus, while the mature enzyme is localized to the endosome.  |

**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
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