

# Recombinant Mouse CASP1 protein (His tag)

Catalog Number:PDEM100052



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

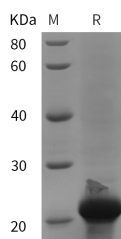
## Description

|                                    |   |
|------------------------------------|---|
| <b>Synonyms</b>                    | CASP-1;CASP1;CASP1;Caspase 1;Caspase-1 subunit p10;ICE;IL-1 beta-converting enzyme;IL-1BC |
| <b>Species</b>                     | Mouse   |
| <b>Expression Host</b>             | E.coli  |
| <b>Sequence</b>                    | Asn 120-Asp 296   |
| <b>Accession</b>                   | P29452  |
| <b>Calculated Molecular Weight</b> | 19.4 kDa  |
| <b>Observed molecular weight</b>   | 21 kDa  |
| <b>Tag</b>                         | N-His   |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | Please contact us for more information.   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual.          |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Caspase-1, also known as IL-1 beta -converting enzyme (ICE), is an aspartic protease that plays a key role in the inflammatory response and apoptosis. Caspase-1 precursor (about 50kDa) can be cleaved and the active enzyme consists of a complex of two 20 kDa (aa 120-297) and two 10 kDa (aa 317-404) subunits which associate following cleavage of inactive precursors. Caspase-1 is required for proteolytic cleavage of the IL-1 beta precursor to form the active proinflammatory cytokine. Alternate splicing generates several additional Caspase-1 isoforms with deletions in the propeptide regions or also in the mature subunits.

## For Research Use Only

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