

For Research Use Only

# Recombinant Human Meprin beta Subunit/MEP1B protein (rFc Tag)



Catalog Number: Eg2875

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/μg protein, LAL method

**Source:**

HEK293-derived Human Meprin beta Subunit protein Thr23-Thr652 (Accession# Q16820) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

4225

**Accession:**

Q16820

**Predicted Molecular Mass:**

97.5 kDa

**SDS-PAGE:**

92-130 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Meprin A subunit beta (MEP1B) is a part of the 'astacin family' and 'metzincin superfamily' of metalloendopeptidases. It is a highly glycosylated, disulfide-linked oligomeric protease composed of one or two evolutionarily related subunits, α and β. MEP1B is implicated in the processing of inflammatory mediators, including cytokines and chemokines, which provides a link to its involvement in inflammatory disorders. It also has been associated with several diseases, particularly those involving barrier breakdown such as Alzheimer's disease, kidney disruption, and inflammatory bowel disease.

## References

1. Herzog C. et al. (2019) Cytokine. 114:18-25.
2. Jiang W. et al. (2000) Gene. 248(1-2):77-87.
3. Gindorf M. et al. (2021) J Cereb Blood Flow Metab. 41(1):31-44.

## Synonyms

EC:3.4.24.63, Endopeptidase-2, MEP1B, Meprin A subunit beta, Meprin B

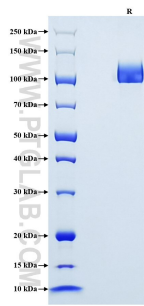
For technical support and original validation data for this product please contact

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## Selected Validation Data



Purity of Recombinant Human Meprin beta Subunit was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.