

Recombinant Rat MEP1B Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52329

Size: 10ug, 100ug

Protein Name: Meprin A subunit beta (EC 3.4.24.63) (Endopeptidase-2) (Meprin B)

Synonym: Mep1b

UniProt ID: P28826

UniProt Link: www.uniprot.org/uniprotkb/P28826/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 704 AA

Molecular Weight: 79 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDARHWPWFLVFATFLLVSGLPAPKFKVDIDGGIDQDIFDINEDLGLDLFEGDIKLEASGRNSIIGDN
YRWPHTIPYVLEDSLEMNAKGVILNAFERYRLKTCIDFKPWSGEENYISVFKGSGCWSSVGNHAGK
QELSIGTNC DRIATVQHEFLHALGFWHEQSRADRDDYITIVWDRILSGKEHNFNIYNDSDSLNVPY
DYTSVMHYSKTAFQNGTESTIITKISDFEDVIGQRMDFSYDLLKLNQLYSCTSSLSFMDSCDFELENI
CGMIQSSQDSADWQRLSQVLSPENDHSNMGGCKDSGFFMHFNTSTGNGGVTAMLESRLVLPKR
GFQCVEFYLYNSGSGNGQLNVYTREYTAGHQDGVLTQREIRDIPTGSWQLYYVTLQVTEKFRVVF
EGVGGPGASSGGLSIDDINLSETRCPHHIWHIQNFTQLLGGQTTVYSPPFYSSKGYAFQINLDLTSTP
NVGLYFHLISGANDDQLQWPCPWQQATMTLLDQNPDIRQRMSNQRSITTDPKMTDDNGSYLWDRP
SKVGVEAFFPNGTQFSRGRGYGTSVFITQERLKSREFLKGDDVYILLTVEDISHLNSTAAPVGPVPTT
STVHNACSEVECQNGGICTLQEGRAECKCPAGEDWWYMGKRCEKRGSTKDTIVIAVSSTVTVFAV
MLIITLISVYCTRRKYRKKASAKTAAMNLENQHAF

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Meprin A subunit beta (EC 3.4.24.63) (Endopeptidase-2) (Meprin B) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Membrane metallopeptidase that sheds many membrane-bound proteins. Exhibits a strong preference for acidic amino acids at the P1' position. Known substrates include: FGF19, VGFA, IL1B, IL18, procollagen I and III, E-cadherin, KLK7, gastrin, ADAM10, tenascin-C. The presence of several pro-inflammatory cytokine among substrates implicate MEP1B in inflammation. It is also involved in tissue remodeling due to its capability to degrade extracellular matrix components.

Subcellular Localization: Cell membrane ; Single-pass type I membrane protein . Secreted .
Note=Homodimers are essentially membrane bound but may also be shed from the surface by ADAM-10 and ADAM-17.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.