Data Sheet (Cat.No.TMPY-00261)

TargetMol

Meprin beta Protein, Human, Recombinant (His)

General Information

Synonyms: meprin A, β;Meprin β;meprin A, beta

Protein Construction: A DNA sequence encoding the human MEP1B (NP_005916.2) (Met1-Thr652) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Thr 23

Species: Human

Expression Host: HEK293 Cells

Accession: Q16820

Molecular Weight: 73 kDa (predicted)

QC Testing

Biological Activity: Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein Background

MEP1B (Meprin A Subunit Beta) is a Protein Coding gene. This gene encodes the beta subunit. Targeted disruption of this gene in mice affects embryonic viability, renal gene expression profiles, and distribution of the membrane-associated alpha subunit in the kidney and intestine. Meprins are cell membrane, oligomeric metalloendopeptidases composed of two distinct but evolutionarily related subunits, alpha, and beta. MEP1A is mapped to the short arm of chromosome 6 by the use of radiation and somatic cell hybrids. More specifically, it is

localized between the centromere and GSTA2 in 6p11-p12. MEP1B mapped to chromosome 18, by the use of somatic cell hybrids, in 18q12.2-q12.3, proximal to the TTR/PALB gene. Diseases associated with MEP1B include Powassan Encephalitis and Deafness, Autosomal Dominant 31.

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