

Human METAP1 Protein (Fc Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 10241-H01H

General Information

Gene Name Synonym:

MAP1A; MetAP1A

Protein Construction:

A DNA sequence encoding the N-terminal domain (Met 1-Phe 272) of human METAP1 (NP_055958.2) was fused with the Fc region of human IgG1 at the N-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Glu 20

Molecular Mass:

The recombinant human Fc/METAP1 is a disulfide-linked homodimeric protein. The reduced monomer consists of 509 amino acids and has a predicted molecular mass of 57 kDa. As a result of glycosylation, the apparent molecular mass of rh Fc/METAP1 monomer is approximately 60-65 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

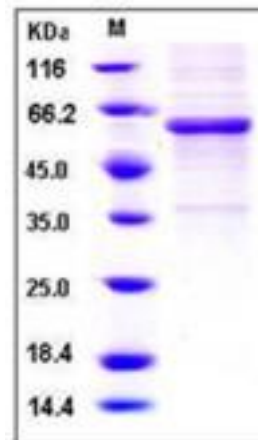
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Processing of the N-terminal initiator methionine or formylated methionine is an essential cellular process conserved from prokaryotes to eukaryotes. The proteolytic removal of N-terminal methionine from nascent peptides is catalyzed by a family of enzymes known as methionine aminopeptidases (MetAPs) and is essential for cell growth. METAP1 and METAP2 have different substrate specificity due to the differences in both size and shape of the active sites. As a member of the M24 family of metalloproteases, METAP1 plays an important role in G(2)/M phase regulation of the cell cycle and may serve as a promising target for the discovery and development of new anticancer agents.

References

1. Lowther, W.T. and B.W. Matthews, 2000, Biochim. Biophys. Acta. 1477: 157 – 167.
2. Addlagatta, A. et al., 2005, Biochemistry. 44: 14741-14749.
3. Hu, X. et al., 2006, Proc. Natl. Acad. Sci. U.S.A. 103:18148-18153.

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