

Human MFAP5 / MAGP2 Protein (His Tag)

Catalog Number: 12648-H08H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

AAT9; MAGP-2; MAGP2; MFAP-5; MP25; MAGP-2

Protein Construction:

A DNA sequence encoding the human MFAP5 (Q13361) (Met1-Leu173) with a C-terminal polyhistidine tag was expressed.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > (54.7+31.5) % 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: Arg 22

Molecular Mass:

The recombinant human MFAP5 comprises 163 amino acids and has a predicted molecular mass of 18.7 kDa. The apparent molecular mass of the protein is approximately 54 and 29 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:

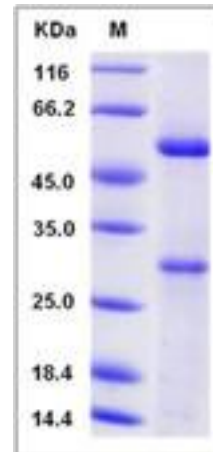
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

MFAP5, also known as MAGP2, is a component of the elastin-associated microfibrils. It belongs to the MFAP family. As a 25-kD microfibril-associated glycoprotein, MFAP5 is rich in serine and threonine residues. It stimulates the assembly of elastic fibers, a complex structure composed of a tropoelastin inner core and microfibril outer mantle comprising proteins such as fibrillins and microfibril-associated glycoproteins that guide tropoelastin deposition. MFAP5 also stabilizes type 1 procollagen and thus plays an important role in extracellular matrix homeostasis. It has multiple binding regions on fibrillins and has covalent periodic association with fibrillin-containing microfibrils.

References

- 1.Hatzinikolas G, *et al.* (1998) The exon structure of the human MAGP-2 gene. Similarity with the MAGP-1 gene is confined to two exons encoding a cysteine-rich region. *J Biol Chem.* 273(45):29309-14.
- 2.Gibson MA, *et al.* (1996) Further characterization of proteins associated with elastic fiber microfibrils including the molecular cloning of MAGP-2 (MP25). *J Biol Chem.* 271(2): 1096-103.
- 3.Miyamoto A, *et al.* (2006) Microfibrillar proteins MAGP-1 and MAGP-2 induce Notch1 extracellular domain dissociation and receptor activation. *J Biol Chem.* 281(15):10089-97.

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