

MFAP5 Protein, Human, Recombinant (His)

General Information

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| Synonyms: | microfibrillar associated protein 5;MFAP-5;AAT9;MAGP2;MP25;MAGP-2 |
| Protein Construction: | A DNA sequence encoding the human MFAP5 (Q13361) (Met1-Leu173) with a C-terminal polyhistidine tag was expressed. Predicted N terminal: Arg 22 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | Q13361 |
| Molecular Weight: | 18.7 kDa (predicted); 54 and 29 kDa (reducing conditions) |

QC Testing

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| 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: | > 85 % 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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

MFAP5 (Microfibril Associated Protein 5, also known as MAGP2) is a Protein Coding gene. MFAP5 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 a covalent periodic association with fibrillin-containing microfibrils. Diseases associated with MFAP5 include Aortic Aneurysm, Familial Thoracic 9, and Familial Thoracic Aortic Aneurysm And Aortic Dissection.

Reference

- 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.
- 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.
- 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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