

## MAGP-2/MFAP5 Protein, Human (HEK293, hFc)

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| <b>Cat. No.:</b>         | HY-P702772  |
| <b>Synonyms:</b>         | Microfibrillar-associated protein 5; MFAP-5; MP25; MAGP-2                       |
| <b>Species:</b>          | Human   |
| <b>Source:</b>           | HEK293  |
| <b>Accession:</b>        | Q13361-1 (I22-L173)   |
| <b>Gene ID:</b>          | 8076  |
| <b>Molecular Weight:</b> | Approximately 32-38 kDa and 55-65 kDa, Due to furin cleavage and glycosylation. |

### PROPERTIES

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|--------------------------------|--|
| <b>AA Sequence</b>             | <pre> I P L G V N S Q R G   D D V T Q A T P E T   F T E D P N L V N D   P A T D E T V L A V L A D I A P S T D D   L A S L S E K N T T   A E C W D E K F T C   T R L Y S V H R P V K Q C I H Q L C F T   S L R R M Y I V N K   E I C S R L V C K E   H E A M K D E L C R Q M A G L P P R R L   R R S N Y F R L P P   C E N V D L Q R P N   G L           </pre> |
| <b>Appearance</b>              | Solution.  |
| <b>Formulation</b>             | Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.   |
| <b>Endotoxin Level</b>         | <1 EU/µg, determined by LAL method.  |
| <b>Reconstitution</b>          | N/A.   |
| <b>Storage &amp; Stability</b> | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.   |
| <b>Shipping</b>                | Shipping with dry ice.   |

### DESCRIPTION

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| <b>Background</b> | <p>The MAGP-2/MFAP5 protein is suggested to potentially play a role in hematopoiesis, indicating its involvement in crucial processes related to blood cell formation. In the cardiovascular system, it is proposed to regulate growth factors or participate in cell signaling to maintain the integrity of large vessels. Notably, MAGP-2/MFAP5 functions as a component of the elastin-associated microfibrils, contributing to the structural organization of these extracellular matrix elements. Additionally, it interacts with key signaling molecules such as TGFB2 and BMP2, suggesting a role in modulating signaling pathways. Furthermore, MAGP-2/MFAP5 engages in interactions with FBN1 and FBN2, emphasizing its involvement in the dynamic network of proteins associated with fibrillin and contributing to the overall maintenance of tissue architecture and function. The multifaceted functions and molecular interactions of MAGP-2/MFAP5 underscore its significance in both hematopoiesis and cardiovascular homeostasis.</p> |
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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