

## METAP2/Methionine aminopeptidase 2 Protein, Human (Sf9, His)

<b>Cat. No.:</b>	HY-P70364
<b>Synonyms:</b>	rHuMethionine aminopeptidase 2/METAP2, His; Methionine aminopeptidase 2; MAP 2; MetAP 2; p67; p67elF2; Peptidase M; METAP2; MAP2
<b>Species:</b>	Human
<b>Source:</b>	Sf9 insect cells
<b>Accession:</b>	P50579 (A2-Y478)
<b>Gene ID:</b>	10988
<b>Molecular Weight:</b>	Approximately 72.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> AGVEEVAASG    SHLNGDLDPD    DREEGAASTA    EEAAKKKRRK KKKSKGPSAA    GEQEPDKESG    ASVDEVARQL    ERSALDKER DEDDEDGDGD    GDGATGKKKK    KKKKKRGPKV    QTDPPSVPIC DLYPNGVFPK    GQECEYPPTQ    DGRTAAWRTT    SEEKKALDQA SEEIWNDFRE    AAEAHRQVRK    YVMSWIKPGM    TMIEICEKLE DCSRKLIKEN    GLNAGLAFPT    GCSLNNCAAH    YTPNAGDTTV LQYDDICKID    FGTHISGRII    DCAFTVTFNP    KYDTLLKAVK DATNTGIKCA    GIDVRLCDVG    EAIQEVMEYS    EVEIDGKTYQ VKPIRNLNGH    SIGQYRIHAG    KTVPIVKGGE    ATRMEEGEVY AIETFGSTGK    GVVHDDMECS    HYMKNFVGH    VPIRLPRTKH LLNVINENFG    TLAFCRRWLD    RLGESKYLMA    LKNLCDLGIV DPYPPLCDIK    GSYTAQFEHT    ILLRPTCKEV    VSRGDDY           </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Solution
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 8.0.
<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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**Background**

METAP2/Methionine aminopeptidase 2 protein functions by cotranslationally removing the N-terminal methionine from nascent proteins. This N-terminal methionine cleavage occurs when the second residue in the primary sequence is small and uncharged, such as Met-Ala-, Cys, Gly, Pro, Ser, Thr, or Val. The catalytic activity of human METAP2 towards Met-Val peptides is significantly higher than that of METAP1, suggesting its responsibility for processing proteins containing N-terminal Met-Val and Met-Thr sequences in vivo. In addition, METAP2 protects eukaryotic initiation factor EIF2S1 from translation-inhibiting phosphorylation by inhibitory kinases like EIF2AK2/PKR and EIF2AK1/HCR, thus playing a critical role in regulating protein synthesis.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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