

METAP1D/Methionine aminopeptidase 1D Protein, Human (His)

Cat. No.:	HY-P70862
Synonyms:	Methionine Aminopeptidase 1D Mitochondrial; Methionyl Aminopeptidase Type 1D Mitochondrial; METAP1D; MAP1D
Species:	Human
Source:	E. coli
Accession:	Q6UB28 (R44-A335)
Gene ID:	254042
Molecular Weight:	35-40 kDa

PROPERTIES

AA Sequence	<pre> RQRDISHSIV LPAAVSSAHP VPKHIKKPDY VTTGIVPDWG DSIEVKNE DQ IQGLHQACQL ARHVLLLAGK SLKVDMTTEE IDALVHREII SHNAYPSPLG YGGFPKSVCT SVNNVLC HGI PDSRPLQDGD IINIDVTVYY NGYHGD TSET FLVGNVDECG KKLVEVARRC RDEAIAACRA GAPFSVIGNT ISHITHQNGF QVCPHFVGHG IGSYFHGHPE IWHHANDSDL PMEEGMAFTI EPIITEGSPE FKVLEDAWTV VSLDNQRS AQ FEHTV LITSR GAQILTKLPH EA </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	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.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	METAP1D, known as Methionine aminopeptidase 1D, assumes a pivotal role in protein maturation by catalyzing the removal of the N-terminal methionine from nascent proteins. This enzymatic activity is particularly prevalent when the second residue in the primary sequence is small and uncharged, such as Met-Ala, Cys, Gly, Pro, Ser, Thr, or Val. Notably, METAP1D's
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function requires the prior deacylation of the N(alpha)-formylated initiator methionine to enable subsequent hydrolysis. Beyond its role in protein biosynthesis, METAP1D may also be implicated in colon tumorigenesis, suggesting its involvement in broader cellular processes and potential implications in pathological conditions.

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

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