METAP2/Methionine aminopeptidase 2 Protein, Mouse (sf9, His)

Cat. No.:	HY-P75925
Synonyms:	Methionine aminopeptidase 2; MAP 2; p67eIF2; Peptidase M; Mnpep
Species:	Mouse
Source:	Sf9 insect cells
Accession:	O08663 (A2-Y478)
Gene ID:	56307
Molecular Weight:	Approximately 60 kDa

PROPERTIES

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 50 mM Tris, 100 mM NaCl, pH 8.0, 10% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	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	METAP2, also known as Methionine Aminopeptidase 2, is a protein with a crucial role in protein synthesis regulation. It cotranslationally removes the N-terminal methionine from nascent proteins, particularly when the second residue in the primary sequence is small and uncharged, such as Met-Ala, Cys, Gly, Pro, Ser, Thr, or Val. This process is essential for proper protein maturation. Furthermore, METAP2 plays a key role in protecting the eukaryotic initiation factor EIF2S1 from translation-inhibiting phosphorylation by inhibitory kinases like EIF2AK2/PKR and EIF2AK1/HCR. By preventing these inhibitory phosphorylation events, METAP2 contributes to the efficient initiation of translation, highlighting its significance in cellular protein synthesis.

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