

Recombinant human Methionine aminopeptidase 2

Catalog No: #AP70539



Package Size: #AP70539-1 10ug #AP70539-2 50ug #AP70539-3 100ug #AP70539-4 200ug
#AP70539-5 500ug #AP70539-6 1mg

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Description

Product Name	Recombinant human Methionine aminopeptidase 2
Brief Description	Recombinant human Methionine aminopeptidase 2
Host Species	E.coli
Species Reactivity	Hu
Target Name	MAP2
Other Names	Initiation factor 2-associated 67
Accession No.	Uniprot ID: P50579
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GeneID	10988;
Calculated MW	80.1kD
Target Length	Full length, 2-478aa
Tag Info	GST-tag
Target Sequence	AGVEEVAASGSHLNGDLDPDDREEGAASTAEAAKKRRRKKKSKGPSAAGEQEPDKESGASVDEVARQLE RSALEDKERDEDEDGDDGDDGATGKKKKKKKKRGPVKVQDPPSPVICDLYPNGVFPKQGECEYPPTQDG RTAAWRTTSEEKALDQASEEIWNDFREAAEAHRQVRKYVMSWIKPGMTMIEICEKLEDCSRKLIKENGLNAG LAFPTGCSLNNCAAHYTPNAGDTTVLQYDDICKIDFGTHISGRIIDCAFTVTFNPKYDTLLKAVKDATNTGIKAG IDVRLCDVGEAIQEVMESEYEVEIDGKTYQVKPIRNLNGHSIGQYRIHAGKTVPIVKGGEATRMEEGEVYAIETFG STGKGVVHDDMECSHYMKNFDVGHVPIRLPRTKHLNINENFGTLAFCCRRLDRLGESKYLMAKLNLCDLGI VDPYPLCDIKGSYTAQFEHTILLRPTCKEVSRGDDY
Formulation	20mM Tris-HCl based buffer,pH8.0
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Application Details

Purity: Greater than 90% as determined by SDS-PAGE.

Background

Cotranslationally removes the N-terminal methionine from nascent proteins. The N-terminal methionine is often cleaved when the second residue in the primary sequence is small and uncharged (Met-Ala-, Cys, Gly, Pro, Ser, Thr, or Val). The catalytic activity of human METAP2 toward Met-Val peptides is consistently two orders of magnitude higher than that of METAP1, suggesting that it is responsible for processing proteins containing N-terminal Met-Val and Met-Thr sequences in vivo. Protects eukaryotic initiation factor EIF2S1 from translation-inhibiting phosphorylation by inhibitory kinases such as EIF2AK2/PKR and EIF2AK1/HCR. Plays a critical role in the regulation of protein synthesis.

Note: This product is for in vitro research use only