

Product datasheet for **TP308648M**

METT10D (METTL16) (NM_024086) Human Recombinant Protein

Product data:

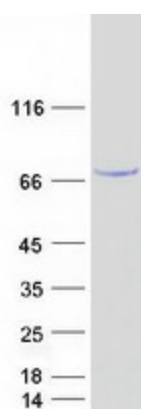
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human methyltransferase 10 domain containing (METT10D), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208648 protein sequence Red =Cloning site Green =Tags(s)
	<p>MALSKSMHARNRYKDKPPDFAYLASKYPDFKQHVQINLNGRVSLNFKDPEAVRALTCTLLREDFGLSIDI PLERLIPTVPLRLNYIHWVEDLIGHQSDSKSTLRRGIDGTGASCIYPLL GATLNGWYFLATEVDDMCFN YAKKNVEQNNLSDLIKVVKVPQKTLLMDALKEESEIHYDFCMCNPPFFANQLEAKGVNSRNP RPPSSV NTGGITEIMAE GGELEFVKRIIHDSLQLKKRLRWYSCMLGKKCSLAPLKEELRIQGVPKVITYTEFCQGRT MRWALAWSFYDDVTVSPSPSKRRKLEKPRKPITFVVLASVMKELSLKASPLRSETAEGIVVTTWIEKIL TDLKVQHKRVPCGKEEVSLFLTAIENSWIHLRRKKRERVRLREVPRAPEDVIQALEEKKPTPKESGNSQ ELARGPQERTPCGPALREGEAAVEGPCPSQESLSQEENPEPTEDERSEEKGGVEVLENCQGSSNGAQDQ EASEQFGSPVAERGKRLPGVAGQYLFKCLINVKKEVDDALVEMHWWEGQNRDLMNQLCTYIRNQIFRLV A VN</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	63.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_076991</u>
Locus ID:	79066
UniProt ID:	<u>Q86W50</u>
RefSeq Size:	5758
Cytogenetics:	17p13.3
RefSeq ORF:	1686
Synonyms:	METT10D
Summary:	<p>RNA N6-methyltransferase that methylates adenosine residues at the N(6) position of a subset of RNAs and is involved in S-adenosyl-L-methionine homeostasis by regulating expression of MAT2A transcripts (PubMed:28525753, PubMed:30197299, PubMed:30197297). Able to N6-methylate a subset of mRNAs and U6 small nuclear RNAs (U6 snRNAs) (PubMed:28525753). In contrast to the METTL3-METTL14 heterodimer, only able to methylate a limited number of RNAs: requires both a 5'UACAGAGAA-3' nonamer sequence and a specific RNA structure (PubMed:28525753, PubMed:30197299, PubMed:30197297). Plays a key role in S-adenosyl-L-methionine homeostasis by mediating N6-methylation of MAT2A mRNAs, altering splicing and/or stability of MAT2A transcripts: in presence of S-adenosyl-L-methionine, binds the 3' UTR region of MAT2A mRNA and specifically N6-methylates the first hairpin of MAT2A mRNA, impairing MAT2A expression (PubMed:28525753). In S-adenosyl-L-methionine-limiting conditions, binds the 3' UTR region of MAT2A mRNA but stalls due to the lack of a methyl donor, preventing N6-methylation and promoting expression of MAT2A (PubMed:28525753). In addition to mRNAs, also able to mediate N6-methylation of U6 small nuclear RNA (U6 snRNA): specifically N6-methylates adenine in position 43 of U6 snRNAs (PubMed:28525753, PubMed:29051200). Also able to bind various lncRNAs (PubMed:29051200). Specifically binds the 3'-end of the MALAT1 long non-coding RNA (PubMed:27872311).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Coomassie blue staining of purified METTL16 protein (Cat# [TP308648]). The protein was produced from HEK293T cells transfected with METTL16 cDNA clone (Cat# [RC208648]) using MegaTran 2.0 (Cat# [TT210002]).