Recombinant Full Length Human METTL16 Protein, N-Flag-tagged

Cat. No. METTL16-13HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human METTL16 protein was expressed in a baculovirus expression system as the full length protein with an N-terminal FLAG tag.
Species	Human
Source	Insect cells
Description	METTL16 (Methyltransferase-like protein 16), also known as U6 small nuclear RNA (adenine-(43)-N(6))- methyltransferase or METT10D (Methyltransferase 10 Domain-Containing Protein), is a RNA N6-methyltransferase that methylates adenosine residues of a subset of mRNAs and U6 small nuclear RNAs (U6 snRNAs). In contrast to the METTL3-METTL14 heterodimer, METTL16 is only able to methylate a limited number of RNAs: requires both a 5UACAGAGAA-3 nonamer sequence and a specific RNA structure. It also plays a key role in S-adenosyl-L-methionine homeostasis by regulating expression of MAT2A transcripts. In presence of S-adenosyl-L-methionine, METTL16 binds the 3-UTR region of MAT2A mRNA and specifically N6-methylates the first hairpin of MAT2A mRNA, leading to intron retention and preventing MAT2A mRNA splicing. While in S-adenosyl-L-methionine-limiting conditions, it binds the 3-UTR region of MAT2A mRNA but stalls due to the lack of a methyl donor, leading to stimulate splicing of the MAT2A retained intron, and promoting expression of MAT2A.
Molecular Mass	64.9 kDa

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Purity	>95%
Applications	This product was manufactured as described in Protein Details. Where possible, Active Motif has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	0.3 µg/µl
Handling Advice	This product is for research use only and is not for use in diagnostic procedures. This product is guaranteed for 6 months from date of arrival.
Full Length	Full L.

GENE INFORMATION

Gene Name	METTL16 methyltransferase 16, RNA N6-adenosine [Homo sapiens (human)]
Official Symbol	METTL16
Synonyms	METTL16; methyltransferase 16, RNA N6-adenosine; METT10D
Gene ID	79066
mRNA Refseq	NM_024086.4
Protein Refseq	NP_076991.3

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UniProt ID	Q86W50

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