

# 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 (a denine-(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 hair pin 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	>95%
<b>Applications</b>	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.
<b>Storage</b>	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.
<b>Concentration</b>	0.3 µg/µl
<b>Handling Advice</b>	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.
<b>Full Length</b>	Full L.

## GENE INFORMATION

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



UniProt ID

Q86W50

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA