

METTL3/METTL14 recombinant protein

METTL3/METTL14, Active

CATALOG #
AAA73676

HOST
Sf9 insect cells

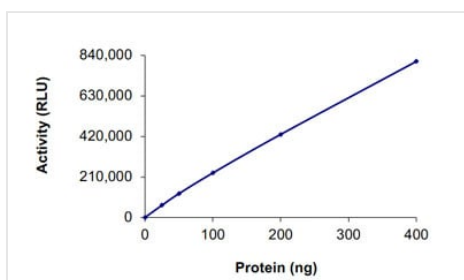
PRODUCT SYNONYMS

METTL3/METTL14; Active; METTL3: IME4; M6A; MT-A70; Spo8 METTL14: None; METTL3/METTL14 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>90%
Form/Format	Recombinant proteins stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.1 ug/ul (varies by lot)
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Bioactivity

The specific activity of METTL3/METTL14 was determined to be 750 pmol/min/mg as per activity assay protocol.



SDS-PAGE

The purity of METTL3/METTL14 complex was determined to be >90% by densitometry. METTL3 approx. MW 100 kDa. METTL14 approx. MW 84 kDa.

ADDITIONAL INFORMATION

Related Product Information for METTL3/METTL14 recombinant protein	Full-length recombinant human METTL3/METTL14 complex was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The METTL3 and METTL14 gene accession numbers are NM_019852 and NM_020961. Methyltransferase-like 3 (METTL3) and methyltransferase-like 14 (METTL14) form a stable heterodimer core complex that catalyzes N6-methyladenosine (m6A) RNA methylation in mammalian cells. m6A is an abundant internal modification in messenger RNA and long non-coding RNA. It functions in multiple aspects of developmental regulation, cell cycle progression, cell fate, and the heat shock stress response by affecting aspects of RNA metabolism such as pre-mRNA processing, translation efficiency, transcript stability and miRNA biogenesis.
Product Categories/Family for METTL3/METTL14 recombinant protein	COVID-19 Proteins; Neurobiology
References	1. Liu J. et al: A METTL3-METTL14 complex mediates mammalian nuclear RNA N6-adenosine methylation. Nat. Chem. Biol. 2014; 10: 93-95 2. Wang X. et al: Structural basis of N6-adenosine methylation by the METTL3-METTL14 complex. Nature 2016; 534:575-578 3. Wang P. et al: Structural Basis for Cooperative Function of Mettl3 and Mettl14 Methyltransferases. Mol. Cell 2016; 63(2):306-317

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_019852
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/mettl3/mettl14-recombinant-protein-sf9/73676>