

METTL1/WDR4 recombinant protein

Recombinant METTL1/WDR4 complex

CATALOG #
AAA60403

HOST
E coli

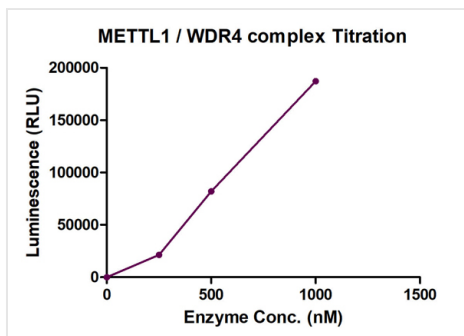
PRODUCT SYNONYMS

METTL1/WDR4; Recombinant METTL1/WDR4 complex; WD Repeat-Containing Protein 4; Methyltransferase-Like Protein 1; METTL1/WDR4 recombinant protein

PRODUCT SPECIFICATIONS

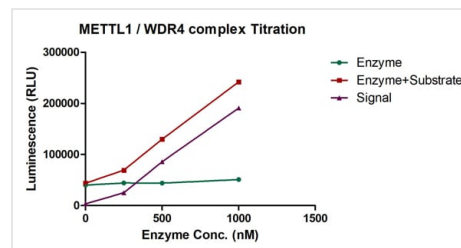
Host	E coli
Form/Format	Recombinant METTL1/WDR4 Complex is supplied in 25 mM Tris 8.0, 300mM NaCl, 20% glycerol, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant METTL1/WDR4 Complex that includes full length human WDR4 protein (accession number NP_061139.2) with an N-terminal T7 tag and C-terminal DYKDDDDK-His tag and full length human METTL1 protein (accession number NP_005362.3) was expressed in E coli. The molecular weights of WDR4 and METTL1 are 48.8kDa and 31.47kDa, respectively.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



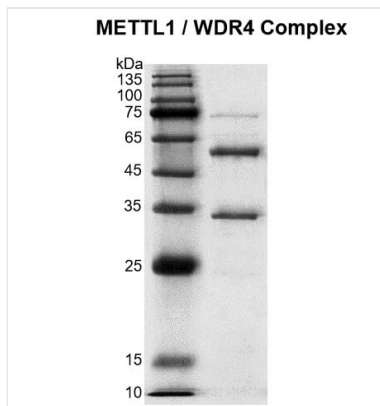
Application Data

MTase-Glo assay for METTL1/WDR4 Complex methyltransferase activity 1uM Substrate RNA and 1uM SAM was incubated with different concentrations of METTL1/WDR4 Complex in 8ul reaction system containing 50 mM Tris-HCl pH 8.6, 0.02% Triton X-100, 2 mM MgCl₂, 1 mM TCEP at room temperature for 1 hour (0.2 U/?L RRI was added in this system). 5xMTase-Glo Reagent was added to the products and incubated for 30 min. Then MTase-Glo Detection was added, and luminescence were read after another 30 min incubation.



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SDS-PAGE

Recombinant METTL1/WDR4 protein gel. METTL1/WDR4 protein was run on a 12.5% SDS-PAGE gel and stained with Coomassie Blue. MW: WDR4: 48.8kDa METTL1: 31.47kDa Purity: >90%

ADDITIONAL INFORMATION

Related Product Information for METTL1/WDR4 recombinant protein

WDR4 (WD Repeat-Containing Protein 4), also known as TRM82, is a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-aspartate (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. METTL1 (Methyltransferase Like Protein 1), also known as TRM8, contains a conserved S-adenosylmethionine-binding motif and is inactivated by the protein kinase B (PKB) and ribosomal S6 kinase (RSK) under growth factor stimulation. WDR4 and METTL1 that form a complex are required for tRNA (guanine(46)-N(7))-methyltransferase activity. More than 90 different modified nucleosides have been identified in tRNA. Among the tRNA modifications, the 7-methylguanosine (m7G) modification is found widely in eubacteria, eukaryotes, and a few archaea. In most cases, the m7G modification occurs at position 46 in the variable region and is a product of tRNA (m7G46) methyltransferase. The m7G46 modification forms a tertiary base pair with C13-G22 and stabilizes the tRNA structure.

Product Categories/Family for METTL1/WDR4 recombinant protein

[Transcription](#); [Recombinant Proteins](#)

NCBI AND UNIPROT INFORMATION

Molecular Weight

The molecular weights of WDR4 and METTL1 are 48.8kDa

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://stage.aaabiotech.com/mettl1/wdr4-recombinant-protein-e-coli/60403>