

Datasheet for ABIN7556370
METTL1 Protein (AA 1-268) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	METTL1
Protein Characteristics:	AA 1-268
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This METTL1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Mettl1 Protein expressed in mammalian cells.
Sequence:	MMAGAEAPQP QKRYRQRAH SNPMADHTLR YPVKPEEMDW SELYPEFFAP LIQNKSHDDP KDEKEKHSQA QVEFADIGCG YGLLVALSP LFPDTLILGL EIRVKVSDYV QDRIRALRAA PGGGFQNIAC LRSNAMKHLP NFFRKGQLAK MFFLFPDPHF KRTKHKWRRII SPTLLAEYAY VLRVGGLVYT VTDVPELHEW MCTHFEEHPL FERVPLEELS EDPIVEHLGS STEEGKKVLR NGGKNFPAVF RRIQDPLLQA VTPNPTLP Sequence without tag. The proposed Purification- Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	METTL1
Alternative Name:	Mettl1 (METTL1 Products)
Background:	<p>TRNA (guanine-N(7)-)-methyltransferase (EC 2.1.1.33) (Methyltransferase-like protein 1) (mRNA (guanine-N(7)-)-methyltransferase) (EC 2.1.1.-) (miRNA (guanine-N(7)-)-methyltransferase) (EC 2.1.1.-) (tRNA (guanine(46)-N(7))-methyltransferase) (tRNA(m7G46)-methyltransferase),FUNCTION: Catalytic component of METTL1-WDR4 methyltransferase complex that mediates the formation of N(7)-methylguanine in a subset of RNA species, such as tRNAs, mRNAs and microRNAs (miRNAs) (By similarity). Catalyzes the formation of N(7)-methylguanine at position 46 (m7G46) in a large subset of tRNAs that contain the 5'-RAGGU-3' motif within the variable loop (By similarity). M7G46 interacts with C13-G22 in the D-loop to stabilize tRNA tertiary structure and protect tRNAs from decay (By similarity). Also acts as a methyltransferase for a subset of internal N(7)-methylguanine in mRNAs (PubMed:29983320). Internal N(7)-methylguanine methylation of mRNAs in response to stress promotes their relocalization to stress granules, thereby suppressing their translation (PubMed:29983320). Also methylates a specific subset of miRNAs, such as let-7 (By similarity). N(7)-methylguanine methylation of let-7 miRNA promotes let-7 miRNA processing by disrupting an inhibitory</p>

Target Details

secondary structure within the primary miRNA transcript (pri-miRNA) (By similarity). Acts as a regulator of embryonic stem cell self-renewal and differentiation (PubMed:29983320). {ECO:0000255|HAMAP-Rule:MF_03055, ECO:0000269|PubMed:29983320}.

Molecular Weight: 30.6 kDa

UniProt: [Q9Z120](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months