

Datasheet for ABIN3083619 METTL16 Protein (AA 1-562) (Strep Tag)



Overview

Quantity:	250 µg
Target:	METTL16
Protein Characteristics:	AA 1-562
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This METTL16 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MALSKSMHAR NRYKDKPPDF AYLASKYPDF KQHVQINLNG RVSLNFKDPE AVRALTCTLL
	REDFGLSIDI PLERLIPTVP LRLNYIHWVE DLIGHQDSDK STLRRGIDIG TGASCIYPLL
	GATLNGWYFL ATEVDDMCFN YAKKNVEQNN LSDLIKVVKV PQKTLLMDAL KEESEIIYDF
	CMCNPPFFAN QLEAKGVNSR NPRRPPPSSV NTGGITEIMA EGGELEFVKR IIHDSLQLKK
	RLRWYSCMLG KKCSLAPLKE ELRIQGVPKV TYTEFCQGRT MRWALAWSFY DDVTVPSPPS
	KRRKLEKPRK PITFVVLASV MKELSLKASP LRSETAEGIV VVTTWIEKIL TDLKVQHKRV
	PCGKEEVSLF LTAIENSWIH LRRKKRERVR QLREVPRAPE DVIQALEEKK PTPKESGNSQ
	ELARGPQERT PCGPALREGE AAAVEGPCPS QESLSQEENP EPTEDERSEE KGGVEVLESC
	QGSSNGAQDQ EASEQFGSPV AERGKRLPGV AGQYLFKCLI NVKKEVDDAL VEMHWVEGQN
	RDLMNQLCTY IRNQIFRLVA VN
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits:
	 Made in Germany - from design to production - by highly experienced protein experts. Protein expressed with ALiCE® and purified in one-step affinity chromatography These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). 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.
	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.
	Expression System:
	 ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
	Concentration:
	 The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade:

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custom-made

Target Details

Target:	METTL16
Alternative Name:	METTL16 (METTL16 Products)
Background:	RNA N6-adenosine-methyltransferase METTL16 (Methyltransferase 10 domain-containing
	protein) (Methyltransferase-like protein 16) (N6-adenosine-methyltransferase METTL16) (EC
	2.1.1.348) (U6 small nuclear RNA (adenine-(43)-N(6))-methyltransferase) (EC
	2.1.1.346),FUNCTION: RNA N6-methyltransferase that methylates adenosine residues at the
	N(6) position of a subset of RNAs and is involved in S-adenosyl-L-methionine homeostasis by
	regulating expression of MAT2A transcripts (PubMed:28525753, PubMed:30197299,
	PubMed:30197297, PubMed:33428944, PubMed:33930289). Able to N6-methylate a subset of
	mRNAs and U6 small nuclear RNAs (U6 snRNAs) (PubMed:28525753). In contrast to the
	METTL3-METTL14 heterodimer, only able to methylate a limited number of RNAs: requires both
	a 5'UACAGAGAA-3' nonamer sequence and a specific RNA structure (PubMed:28525753,
	PubMed:30197299, PubMed:30197297). Plays a key role in S-adenosyl-L-methionine
	homeostasis by mediating N6-methylation of MAT2A mRNAs, altering splicing of MAT2A
	transcripts: in presence of S-adenosyl-L-methionine, binds the 3'-UTR region of MAT2A mRNA
	and specifically N6-methylates the first hairpin of MAT2A mRNA, preventing recognition of their
	3'-splice site by U2AF1/U2AF35, thereby inhibiting splicing and protein production of S-
	adenosylmethionine synthase (PubMed:28525753, PubMed:33930289). In S-adenosyl-L-
	methionine-limiting conditions, binds the 3'-UTR region of MAT2A mRNA but stalls due to the
	lack of a methyl donor, preventing N6-methylation and promoting expression of MAT2A
	(PubMed:28525753). In addition to mRNAs, also able to mediate N6-methylation of U6 small
	nuclear RNA (U6 snRNA): specifically N6-methylates adenine in position 43 of U6 snRNAs
	(PubMed:28525753, PubMed:29051200, PubMed:32266935). Also able to bind various
	IncRNAs, such as 7SK snRNA (7SK RNA) or 7SL RNA (PubMed:29051200). Specifically binds
	the 3'-end of the MALAT1 long non-coding RNA (PubMed:27872311).
	{ECO:0000269 PubMed:27872311, ECO:0000269 PubMed:28525753,
	EC0:0000269 PubMed:29051200, EC0:0000269 PubMed:30197297,
	ECO:0000269 PubMed:30197299, ECO:0000269 PubMed:32266935,
	ECO:0000269 PubMed:33428944}.
Molecular Weight:	63.6 kDa
UniProt:	Q86W50

Application Details

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

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Application Details	
	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	 ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months