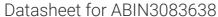
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METTL18 Protein (AA 1-372) (Strep Tag)



Image



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Overview

Quantity:	1 mg
Target:	METTL18
Protein Characteristics:	AA 1-372
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This METTL18 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MTFQFNFTIE DHLENELTPI RDGALTLDSS KELSVSESQK GEERDRKCSA EQFDLPQDHL
WEHKSMENAA PSQDTDSPLS AASSSRNLEP HGKQPSLRAA KEHAMPKDLK KMLENKVIET
LPGFQHVKLS VVKTILLKEN FPGENIVSKS FSSHSDLITG VYEGGLKIWE CTFDLLAYFT
KAKVKFAGKK VLDLGCGSGL LGITAFKGGS KEIHFQDYNS MVIDEVTLPN VVANSTLEDE
ENDVNEPDVK RCRKPKVTQL YKCRFFSGEW SEFCKLVLSS EKLFVKYDLI LTSETIYNPD
YYSNLHQTFL RLLSKNGRVL LASKAHYFGV GGGVHLFQKF VEERDVFKTR ILKIIDEGLK
RFIIEITFKF PG

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- · Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 posttranslational 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 in several dilutions and is measured against its specific reference buffer.
- · We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Product Details >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Grade: Crystallography grade **Target Details** Target: METTL18 Alternative Name: METTL18 (METTL18 Products) Background: Histidine protein methyltransferase 1 homolog (EC 2.1.1.85) (Arsenic-transactivated protein 2) (AsTP2) (Methyltransferase-like protein 18), FUNCTION: Protein-L-histidine N-telemethyltransferase that specifically monomethylates RPL3, thereby regulating translation elongation (PubMed:23349634, PubMed:33693809, PubMed:35674491). Histidine methylation of RPL3 regulates translation elongation by slowing ribosome traversal on tyrosine codons: slower elongation provides enough time for proper folding of synthesized proteins and prevents cellular aggregation of tyrosine-rich proteins (PubMed:35674491). {ECO:0000269|PubMed:23349634, ECO:0000269|PubMed:33693809, ECO:0000269|PubMed:35674491}. Molecular Weight: 42.1 kDa UniProt: 095568 **Application Details Application Notes:** In addition to the applications listed above we expect the protein to work for functional studies 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

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

even the most difficult-to-express proteins, including those that require post-translational

protein production are removed, leaving only the protein production machinery and the

mitochondria to drive the reaction. During our lysate completion steps, the additional

During lysate production, the cell wall and other cellular components that are not required for

modifications.

Application Details

	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. If you have a special request,
	please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

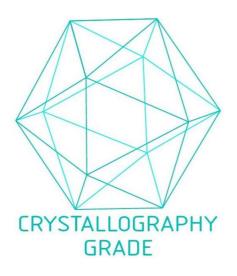


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process