

Datasheet for ABIN3096436

YTHDF2 Protein (AA 2-579) (His tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	YTHDF2
Protein Characteristics:	AA 2-579
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This YTHDF2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: SASSLLEQRP KGQGNKVQNG SVHQKDGLND DDFEPYLSPQ ARPNNAYTAM SDSYLPSSYS
PSIGFSYSLG EAAWSTGGDT AMPYLTSYGQ LSNGEPLFLP DAMFGQPGAL GSTPFLGQHG
FNFFPSGIDF SAWGNSSSQG QSTQSSGYSS NYAYAPSSLG GAMIDGQSAF ANETLNKAPG
MNTIDQGMAA LKLGSTEVAS NVPKVVGSAV GSGSITSNIV ASNSLPPATI APPKPASWAD
IASKPAKQQP KLKTKNGIAG SSLPPPIKH NMDIGTWDNK GPVAKAPSQA LVQNIGQPTQ
GSPQPVGQQA NNSPPVAQAS VGQQTQPLPP PPPQPAQLSV QQQAAPTRW VAPRNRGSGF
GHNGVDGNGV GQSQAGSGST PSEHPVLEK LRSINNYNPK DFDWNLKHGR VFIKSYSED
DIHRSIKYN IWCSTEHGNKR LDAAYRSMNG KGPVYLLFSV NGSGHFCGVA EMKSAVDYNT
CAGVWSQDKW KGRFDVRWIF VKDVPNSQLR HIRLENNENK PVTNSRDTQE VPLEKAKQVL
KIIASYKHTT SIFDDFSHYE KRQEEEEESVK KERQGRGK

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Product Details

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
 - Human YTHDF2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
 - 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

- Purification:
- Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
 2. 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.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target:	YTHDF2
Alternative Name:	YTHDF2 (YTHDF2 Products)
Background:	<p>Specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs, and regulates mRNA stability (PubMed:24284625, PubMed:26046440, PubMed:26318451). M6A is a modification present at internal sites of mRNAs and some non-coding RNAs and plays a role in the efficiency of mRNA splicing, processing and stability (PubMed:22575960, PubMed:24284625, PubMed:25412658, PubMed:25412661). Acts as a regulator of mRNA stability: binding to m6A-containing mRNAs results in the localization to mRNA decay sites, such as processing bodies (P-bodies), leading to mRNA degradation (PubMed:24284625, PubMed:26046440). Also acts as a promoter of cap-independent mRNA translation following heat shock stress: upon stress, relocalizes to the nucleus and specifically binds mRNAs with some m6A methylation mark at their 5'-UTR, protecting demethylation of mRNAs by FTO, thereby promoting cap-independent mRNA translation (PubMed:26458103).</p> <p>{ECO:0000269 PubMed:22575960, ECO:0000269 PubMed:24284625, ECO:0000269 PubMed:25412658, ECO:0000269 PubMed:25412661, ECO:0000269 PubMed:26046440, ECO:0000269 PubMed:26318451, ECO:0000269 PubMed:26458103}.</p>
Molecular Weight:	63.2 kDa Including tag.
UniProt:	Q9Y5A9

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:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
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Handling

Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images



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