

## YTHDF3 recombinant protein

Recombinant YTHDF3 protein

CATALOG #  
**AAA60176**

HOST  
**Baculovirus**

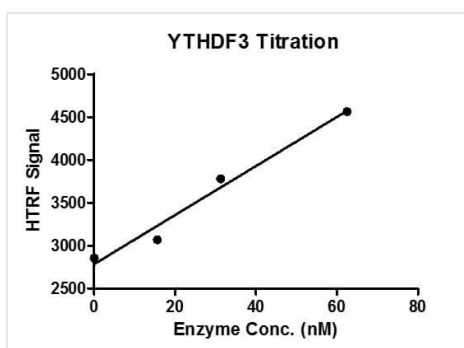
### PRODUCT SYNONYMS

YTHDF3; Recombinant YTHDF3 protein; YTH N6-Methyladenosine RNA Binding Protein 3; YTHDF3 recombinant protein

### PRODUCT SPECIFICATIONS

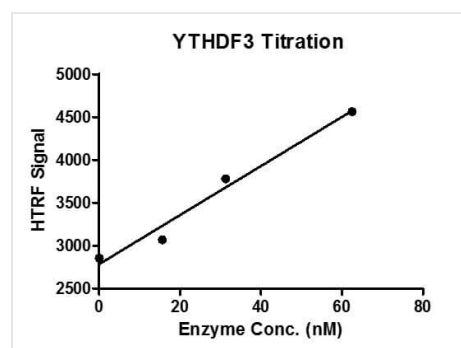
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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Baculovirus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Form/Format             | Recombinant YTHDF3 protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Protein Species         | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tag                     | DYKDDDDK-Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Notes                   | Recombinant YTHDF3 protein is suitable for use in the study of binding assay, inhibitor screening, and selectivity profiling. HTRF assay was used for analysis of YTHDF3 protein activity. 3uM biotinylated m6A ssDNA oligos (GTTGG/m6A/CTT) were incubated with different concentrations of YTHDF3 protein in a 10ul system containing 50mM HEPES-NaOH pH 7.4, 0.1% BSA for 1 hr, then 10ul DYKDDDDK antibody and SA-XL665 mixture (each 1:100 dilution in reaction buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection. |
| Dry Ice Note            | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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.<br>Shipping Temp: Dry Ice                                                                                                                                                                                                                                                                                                                                                                                                                           |

### IMAGES



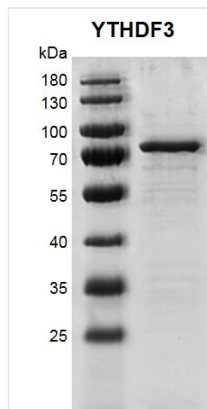
#### Application Data

HTRF assay for YTHDF3 protein activity. 3 uM biotinylated m6A ssDNA oligos (GTTGG/m6A/CTT) were incubated with different concentrations of YTHDF3 protein in a 10 ul system containing 50 mM HEPES-NaOH pH 7.4, 0.1% BSA for 1 hr, then 10 ul DYKDDDDK antibody and SA-XL665 mixture (each 1:100 dilution in reaction buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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#### SDS-PAGE

Recombinant YTHDF3 protein gel 10% SDS-PAGE with Coomassie blue staining MW: 65.8 kDa Purity: >90%

### ADDITIONAL INFORMATION

|                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for YTHDF3 recombinant protein</b> | <p>Short Description: Recombinant YTHDF3 protein was expressed in a baculovirus expression system as the full-length human protein (accession number NP_001264742.1) with an N-terminal DYKDDDDK-Tag. The molecular weight of the protein is 65.8 kDa. It is suitable for use in binding assays, inhibitor screening, and selectivity profiling.</p> <p>Background: YTHDF3 (YTH N6-Methyladenosine RNA Binding Protein 3) is a member of the YTH (YT521-B homology) superfamily containing YTH domain. Human YTH domain family proteins include three members, YTHDF1-3, which mainly localized in the cytoplasm. YTHDF3 specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs and promotes RNA translation efficiency, sharing m6A-containing mRNAs targets with YTHDF1 and YTHDF2, and regulates different processes depending on the context. It facilitates the translation of targeted mRNAs in cooperation with YTHDF1 by binding to m6A-containing mRNAs and interacting with 40S and 60S ribosome subunits. It can also act as a regulator of mRNA stability in cooperation with YTHDF2 by binding to m6A-containing mRNA and promoting their degradation. YTHDF3 recognizes and binds m6A-containing circular RNAs (circRNAs) and promotes their translation. circRNAs are generated through back-splicing of pre-mRNAs, a non-canonical splicing process promoted by dsRNA structures across circularizing exons. N6-methylated adenine (m6A) is prevalently present in nearly all RNA types and can be found in all organisms from bacteria to humans. It preferentially appears around stop codons and within long internal exons in mammalian messenger RNAs. m6A plays an important role in the efficiency of mRNA splicing, processing, translation efficiency, editing and mRNA stability. m6A also takes place in other RNA molecules, such as primary miRNA (pri-miRNAs).</p> |
| <b>Product Categories/Family for YTHDF3 recombinant protein</b>   | <a href="#">Recombinant Proteins</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">481026555</a>                                                                         |
| NCBI GeneID                      | <a href="#">253943</a>                                                                            |
| NCBI Accession #                 | <a href="#">NP_001264742.1</a>                                                                    |
| NCBI GenBank Nucleotide #        | <a href="#">NM_001277813.1</a>                                                                    |
| UniProt Accession #              | <a href="#">Q7Z739</a> ; <a href="#">Q63Z37</a> ; <a href="#">Q659A3</a> ; <a href="#">B3KXL4</a> |
| Molecular Weight                 | 63,861 Da                                                                                         |
| NCBI Official Full Name          | YTH domain-containing family protein 3 isoform b                                                  |
| NCBI Official Synonym Full Names | YTH N(6)-methyladenosine RNA binding protein 3                                                    |
| NCBI Official Symbol             | YTHDF3                                                                                            |
| NCBI Protein Information         | YTH domain-containing family protein 3                                                            |
| UniProt Protein Name             | YTH domain-containing family protein 3                                                            |

|                    |             |
|--------------------|-------------|
| UniProt Gene Name  | YTHDF3      |
| UniProt Entry Name | YTHD3_HUMAN |

**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/ythdf3-recombinant-protein-baculovirus/60176>