

YTHDC1 recombinant protein

Recombinant YTHDC1 (325-502) protein

CATALOG #
AAA60133

HOST
Human

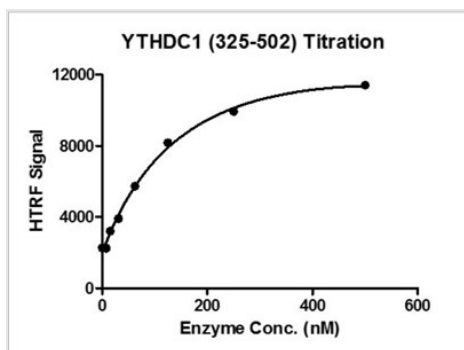
PRODUCT SYNONYMS

YTHDC1; Recombinant YTHDC1 (325-502) protein; YTH Domain Containing 1; Splicing Factor YT521; YTHDC1 recombinant protein

PRODUCT SPECIFICATIONS

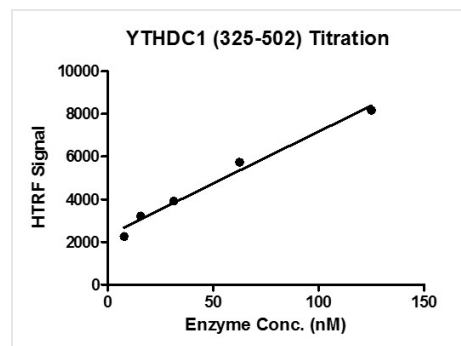
Host	Human
Form/Format	Recombinant YTHDC1 (325-502) protein is supplied in 25mM Tris-HCl pH8.0, 300mM NaCl, 10% glycerol and 0.5mM TCEP.
Concentration	1.2 ug/ul (varies by lot)
Expressed	E.Coli
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



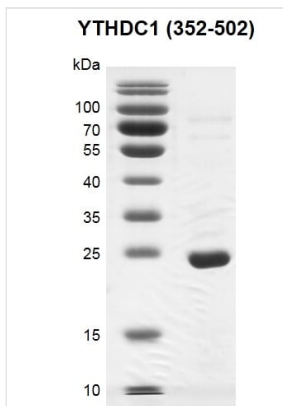
Application Data

HTRF for YTHDC1 (325-502) Activity: Oligo m6A ssDNA (GTTGG/m6A/CTT) was incubated with different concentrations of YTHDC1 (325-502) protein in a reaction system for 1 hour, then DYKDDDDK antibody and SA-XL665 mixture (1:100 dilution in the same 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 YTHDC1 (325-502) SDS PAGE gel 13% SDS-PAGE Coomassie staining MW: 24.9 kDa Purity: >90%

ADDITIONAL INFORMATION

Related Product Information for YTHDC1 recombinant protein	Background: YTHDC1 (YTH Domain Containing 1), is a regulator of alternative splicing that specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs. 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. YTHDC1 acts as a key regulator of exon-inclusion or exon-skipping during alternative splicing via interaction with mRNA splicing factors SRSF3 and SRSF10. It specifically binds m6A-containing mRNAs and promotes recruitment of SRSF3 to its mRNA-binding elements adjacent to m6A sites, leading to exon-inclusion during alternative splicing. In contrast, interaction with SRSF3 prevents interaction with SRSF10, a splicing factor that promotes exon skipping: this prevents SRSF10 from binding to its mRNA-binding sites close to m6A-containing regions, leading to inhibit exon skipping during alternative splicing. YTHDC1 may also regulate alternative splice site selection Protein Details: Recombinant YTHDC1 (325-502) protein corresponding to amino acids 325-502 that contains the YTH domain sequence of human YTHDC1 (accession number NP_001317627.1) was expressed in E. coli cells with an N-terminal 6×His tag and a C-terminal DYKDDDDK tag. The molecular weight of the protein is 24.9 kDa.
Product Categories/Family for YTHDC1 recombinant protein	Recombinant Proteins ; Transcription

NCBI AND UNIPROT INFORMATION

NCBI GI #	1061213987
NCBI GeneID	91746
NCBI Accession #	NP_001317627.1
NCBI GenBank Nucleotide #	NM_001330698.1
UniProt Accession #	Q96MU7; Q4W5Q3; Q7Z622; Q8TF35
NCBI Official Full Name	YTH domain-containing protein 1 isoform 3
NCBI Official Synonym Full Names	YTH domain containing 1
NCBI Official Symbol	YTHDC1
NCBI Official Synonym Symbols	YT521; YT521-B
NCBI Protein Information	YTH domain-containing protein 1
UniProt Protein Name	YTH domain-containing protein 1
UniProt Gene Name	YTHDC1
UniProt Synonym Gene Names	KIAA1966; YT521; YT521-B
UniProt Entry Name	YTDC1_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://www.aaabiotech.com/ythdc1-recombinant-protein-human/60133>