

YTHDF1 recombinant protein

Recombinant YTHDF1 (380-533) protein

CATALOG #
AAA60135

HOST
E Coli

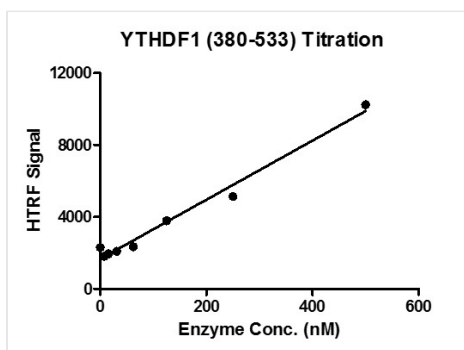
PRODUCT SYNONYMS

YTHDF1; Recombinant YTHDF1 (380-533) protein; YTH N6-Methyladenosine RNA Binding Protein 1; DACA-1; Dermatomyositis Associated With Cancer Putative Autoantigen 1; YTHDF1 recombinant protein

PRODUCT SPECIFICATIONS

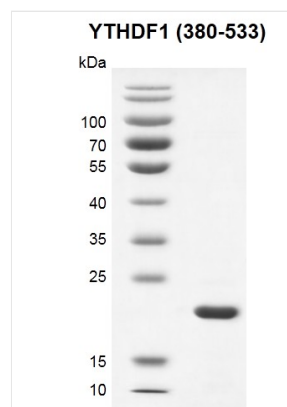
Host	E Coli
Form/Format	Recombinant YTHDF1 (380-533) protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 20% glycerol, 2mM DTT, 0.04% Triton X-100.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	Recombinant YTHDF1 (380-533) protein is suitable for use in the study of binding assay, inhibitor screening, and selectivity profiling.
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. Shipping Temp: Dry Ice

IMAGES



Application Data

HTRF for Recombinant YTHDF1 (380-533) protein activity 3 uM oligo m6A ssDNA (GTTGG/m6A/CTT) was incubated with different concentrations of YTHDF1 (380-533) protein in 10 ul reaction system containing 50 mM HEPES-NaOH pH 7.5, 0.1% BSA for 1 hour, then 10 ul 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.



SDS-PAGE

Recombinant YTHDF1 (380-533) protein 12.5% SDS-PAGE gel with Coomassie Blue staining
MW: 22.6 kDa Purity: >90%

ADDITIONAL INFORMATION

Related Product Information for YTHDF1 recombinant protein	Short Description: Recombinant YTHDF1 (380-533) protein corresponding to amino acids 380-533 that contains the YTH domain sequence of human YTHDF1 (accession number NP_060268.2) was expressed in E Coli with an N-terminal 6xHis-tag and a C-terminal DYKDDDDK tag. The molecular weight of the protein is 22.6 kDa. It is suitable for use in binding assays, inhibitor screening, and selectivity profiling. Background: YTHDF1 (YT521-B homology domain family 1, also known as C20orf21, DACA-1) 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. YTHDF proteins comprise a highly conserved single-stranded RNA-binding domain which specifically recognizes and binds m6A-containing RNAs. A important role of YTHDF1 is regulating mRNA translation efficiency. YTHDF1 promotes ribosome loading to m6A-containing mRNAs and interacts with translation initiation factors eIF3 (EIF3A or EIF3B) to facilitate translation initiation. 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).
Product Categories/Family for YTHDF1 recombinant protein	Recombinant Proteins ; Transcription

NCBI AND UNIPROT INFORMATION

NCBI GI #	31377750
NCBI GeneID	54915
NCBI Accession #	NP_060268.2
NCBI GenBank Nucleotide #	NM_017798.3
UniProt Accession #	Q9BYJ9 ; Q8N3G5 ; Q8TBT1 ; Q96AN4 ; Q96S57 ; Q9BTI7 ; Q9NX79
Molecular Weight	60,874 Da
NCBI Official Full Name	YTH domain family protein 1
NCBI Official Synonym Full Names	YTH domain family, member 1
NCBI Official Symbol	YTHDF1
NCBI Official Synonym Symbols	C20orf21
NCBI Protein Information	YTH domain family protein 1; DACA-1; YTH domain family 1; dermatomyositis associated with cancer putative autoantigen 1
UniProt Protein Name	YTH domain family protein 1
UniProt Gene Name	YTHDF1
UniProt Synonym Gene Names	C20orf21; DACA-1
UniProt Entry Name	YTHD1_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/ythdf1-recombinant-protein-e-coli/60135>