Recombinant Human YTH N6-methyladenosine RNA binding protein C2 Protein, His tagged

Cat. No. YTHDC2-012H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human YTHDC2 protein (Q9H6S0) (Met 1286-Asp 1430) with a His tag at the C-terminus was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1286-1430aa
Description	3'-5' RNA helicase that plays a key role in the male and female germline by promoting transition from mitotic to meiotic divisions in stem cells. Specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs, a modification present at internal sites of mRNAs and some non-coding RNAs that plays a role in the efficiency of RNA processing and stability. Essential for ensuring a successful progression of the meiotic program in the germline by regulating the level of m6A-containing RNAs. Acts by binding and promoting degradation of m6A-containing mRNAs: the 3'-5' RNA helicase activity is required for this process and RNA degradation may be mediated by XRN1 exoribonuclease. Required for both spermatogenesis and oogenesis.
Tag	C-His
Molecular Mass	18.4 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.

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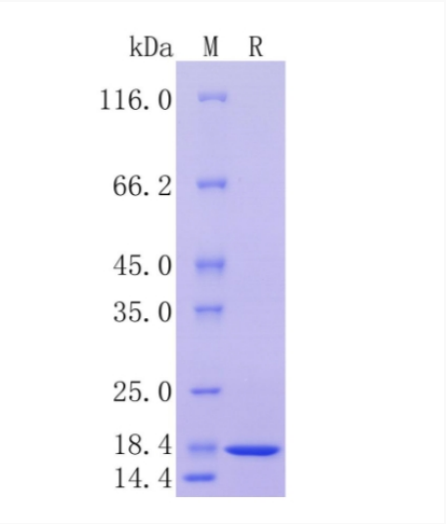
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	YTHDC2 YTH N6-methyladenosine RNA binding protein C2 [Homo sapiens (human)]
Official Symbol	YTHDC2
Synonyms	YTHDC2; YTH N6-methyladenosine RNA binding protein C2; CAHL; hYTHDC2; 3'-5' RNA helicase YTHDC2; CsA-associated helicase-like protein; YTH domain containing 2; probable ATP-dependent RNA helicase YTHDC2; EC 3.6.4.13
Gene ID	64848
mRNA Refseq	NM_022828.3
Protein Refseq	NP_073739.3
MIM	616530
UniProt ID	Q9H6S0

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Protein on SDS-PAGE under reducing (R) condition.



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