

TENT4B Protein, Human, Recombinant (His)

General Information

Synonyms:	Terminal uridylyltransferase 3 (TUTase 3);TENT4B;Terminal guanylyltransferase;PAP-associated domain-containing protein 5;Topoisomerase-related function protein 4-2 (TRF4-2);TUT3;TRF4-2;GLD4;Terminal nucleotidyltransferase 4B;PAPD5;Non-canonical poly(A) RNA polymerase PAPD5
Protein Construction:	1-572 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q8NDF8
Molecular Weight:	67.3 kDa (predicted)
AA Sequence:	MYRSGERLLGSHALPAEQRDFLPLETTNNNNHHQPGAWARRAGSSASSPPSASSSPHPSAAVPAADPAD SASGSSNKRRKRDNKASGGRAAGGGRADGGGVVYSGTPWKRRNYNQGVVGLHEEISDFYEYMSPRPEEEKM RMEVVNRIESVIKELWPSADVQIFGSFKTGLYLPTSDIDLVVFGKWENLPLWTLEEALRKHKVADEDSVKVLDK ATVPIIKLTDSFTEVKVDISFNQNGVRAADLIKDFTKKYPVLPYLVLVVKQFLLQRDLNEVFTGGIGSYSFLMA VSFLQLHPREDACIPNTNYGVLLIEFFELYGRHFNYLKTGIRIKDGGSYVAKDEVQKNMLDGYRPSMLYIEDPL QPGNDVGRSSYGAMQVKQAFDYAYVVLSHAVSPIAKYYPNNETESILGRIIRVTDEVATYRDWISKQWGLKN RPEPSCNGPVSSSSATQSSSSDVS DATPCKTPKQLLCPSTGNRVGSQDVSLESSQAVGKMQSTQTTNTSN STNKSQHG SARLFRSSSKGFQGTQTSHGSLMTNKQHQGKSNQYHGGKRRKHKRDAPLSDLCR

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Terminal nucleotidyltransferase that catalyzes preferentially the transfer of ATP and GTP on RNA 3' poly(A) tail creating a heterogeneous 3' poly(A) tail leading to mRNAs stabilization by protecting mRNAs from active deadenylation. Also functions as a catalytic subunit of a TRAMP-like complex which has a poly(A) RNA polymerase activity and is involved in a post-transcriptional quality control mechanism. Polyadenylation with short oligo(A) tails is required for the degradative activity of the exosome on several of its nuclear RNA substrates. Doesn't need a cofactor for polyadenylation activity (in vitro). Required for cytoplasmic polyadenylation of mRNAs involved in carbohydrate metabolism, including the glucose transporter SLC2A1/GLUT1. Plays a role in replication-dependent histone mRNA degradation, probably through terminal uridylation of mature histone mRNAs. May play a role in sister chromatid cohesion. Mediates 3' adenylation of the microRNA MIR21 followed by its 3'-to-5' trimming by the exoribonuclease PARN leading to degradation. Mediates 3' adenylation of H/ACA box snoRNAs (small nucleolar RNAs) followed by its 3'-to-5' trimming by the exoribonuclease PARN which enhances snoRNA stability and maturation.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481