

Telomerase Reverse Transcriptase (TERT) Recombinant Protein | TERT recombinant protein

Recombinant Telomerase Reverse Transcriptase (TERT)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA20275	E.coli	Mus musculus (Mouse)	SDS-Page, Western Blot

PRODUCT SYNONYMS

Telomerase Reverse Transcriptase (TERT); Recombinant Telomerase Reverse Transcriptase (TERT); TERT recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Mus musculus (Mouse)
Purity/Purification	> 80%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl, 5%Trehalose.
Concentration	Original Concentration: 120ug/mL (varies by lot)
Applicable Applications for TERT recombinant protein	Positive Control, Immunogen, SDS-PAGE, WB (Western Blot)
Application Notes	(May be suitable for use in other assays to be determined by the end user.)
Source	Prokaryotic expression
Residues	Gln642~Lys974
Tags	N-terminal His and GST Tag
Subcellular Location	Nucleus, Cytoplasm, Chromosome
Traits	Freeze-dried powder
Predicted isoelectric point	7.1
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in ddH2O to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



SDS-PAGE



Sequence Information

NCBI AND UNIPROT INFORMATION

NCBI GI #	6678291
NCBI GeneID	21752
NCBI Accession #	NP_033380.1
NCBI GenBank Nucleotide #	NM_009354.1
UniProt Accession #	O70372; O35432; Q9JK99
Molecular Weight	Predicted Molecular Mass: 67.4kDa Accurate Molecular Mass: 60kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	telomerase reverse transcriptase
NCBI Official Synonym Full Names	telomerase reverse transcriptase
NCBI Official Symbol	Tert
NCBI Official Synonym Symbols	TR; TP2; TRT; EST2; TCS1
NCBI Protein Information	telomerase reverse transcriptase; telomerase catalytic subunit; telomerase reverse transcriptase beta
UniProt Protein Name	Telomerase reverse transcriptase
UniProt Gene Name	Tert
UniProt Entry Name	TERT_MOUSE

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.