

Recombinant Mouse Telomerase Reverse Transcriptase

Cat. No. Tert-574M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse telomerase reverse transcriptase is expressed in <i>E. coli</i> . TERT encoding 174-341 amino acids. The molecular weight of the recombinant Tert is 46 kDa.
Species	Mouse
Source	E.coli
ProteinLength	174-341 a.a.
Description	Telomeres are specialized structures at the ends of eukaryotic chromosomes which appear to function in chromosome stabilization, positioning and replication. At each cell division, the length of telomeric TTAGGG DNA repeats is shortened and cells ultimately stop dividing. Telomerase is a reverse transcriptase that synthesizes telomere DNA thereby compensating for telomere loss. Telomerase is expressed mainly in the nucleus of proliferating cells and lymphocytes.
Purity	>90%.
Physical Appearance	Sterile filtered liquid.
Formulation	Telomerase protein at 100µg/ml in 50mM Tris-Acetate, pH-7.5, 1mM EDTA and 20% Glycerol.
Storage	Store vial at -20°C to -80°C. When stored at the recommended temperature, this

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protein is stable for 12 months. Please avoid freeze-thaw cycles.

GENE INFORMATION

Gene Name	Tert telomerase reverse transcriptase [Mus musculus]
Synonyms	telomerase reverse transcriptase; Tert; TR; TP2; TRT; EST2; TCS1; hEST2; MGC150124; telomerase catalytic subunit; telomerase-associated protein 2
Gene ID	21752
mRNA Refseq	NM_009354
Protein Refseq	NP_033380
UniProt ID	O14746
Chromosome Location	13 C1
Function	nucleotidyltransferase activity; DNA binding; RNA binding;protein binding; RNA-directed DNA polymerase activity; telomerase activity; telomeric template RNA reverse transcriptase activity; transferase activity

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