

Human Telomerase reverse transcriptase peptide

Cat. No. TERT-560H Lot. No. (See product label)

SPECIFICATION

Product Overview It is a synthetic Human Telomerase reverse transcriptase peptide.

Species Human

Source Synthetic

ProteinLength 550-600 a.a.

Description

Telomerase is a ribonucleoprotein polymerase that maintains telomere ends by addition of the telomere repeat TTAGGG. The enzyme consists of a protein component with reverse transcriptase activity, encoded by this gene, and an RNA component which serves as a template for the telomere repeat. Telomerase expression plays a role in cellular senescence, as it is normally repressed in postnatal somatic cells resulting in progressive shortening of telomeres. Deregulation of telomerase expression in somatic cells may be involved in oncogenesis. Studies in mouse suggest that telomerase also participates in chromosomal repair, since de novo synthesis of telomere repeats may occur at double-stranded breaks.

Alternatively spliced variants encoding different isoforms of telomerase reverse transcriptase have been identified; the full-length sequence of some variants has not been determined. Alternative splicing at this locus is thought to be one mechanism of regulation of telomerase activity.

Form Liquid

Applications Blocking

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Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Concentration 100 g at 1 mg/ml

GENE INFORMATION

Gene Name TERT telomerase reverse transcriptase [Homo sapiens (human)]

Official Symbol TERT

Synonyms TERT; TP2; TRT; CMM9; EST2; TCS1; hTRT; DKCA2; DKCB4; hEST2; PFBMFT1; telomerase reverse transcriptase; telomerase catalytic subunit; telomerase-associated protein 2; NP_001180305.1; EC 2.7.7.49; NP_937983.2

Gene ID 7015

mRNA Refseq NM_001193376

Protein Refseq NP_001180305

MIM 187270

UniProt ID O14746

Chromosome Location 5p15.33

Pathway Chromosome Maintenance; Extension of Telomeres; Id Signaling Pathway

Function metal ion binding; protein homodimerization activity; telomeric DNA binding

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