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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA