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TERT Protein (AA 1-1122) (Strep Tag)



Overview

Quantity:	1 mg
Target:	TERT
Protein Characteristics:	AA 1-1122
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TERT protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:

MTRAPRCPAV RSLLRSRYRE VWPLATFVRR LGPEGRRLVQ PGDPKIYRTL VAQCLVCMHW GSQPPPADLS FHQVSSLKEL VARVVQRLCE RNERNVLAFG FELLNEARGG PPMAFTSSVR SYLPNTVIET LRVSGAWMLL LSRVGDDLLV YLLAHCALYL LVPPSCAYQV CGSPLYQICA TTDIWPSVSA SYRPTRPVGR NFTNLRFLQQ IKSSSRQEAP KPLALPSRGT KRHLSLTSTS VPSAKKARCY PVPRVEEGPH RQVLPTPSGK SWVPSPARSP EVPTAEKDLS SKGKVSDLSL SGSVCCKHKP SSTSLLSPPR QNAFQLRPFI ETRHFLYSRG DGQERLNPSF LLSNLQPNLT GARRLVEIIF LGSRPRTSGP LCRTHRLSRR YWQMRPLFQQ LLVNHAECQY VRLLRSHCRF RTANQQVTDA LNTSPPHLMD LLRLHSSPWQ VYGFLRACLC KVVSASLWGT RHNERRFFKN LKKFISLGKY GKLSLQELMW KMKVEDCHWL RSSPGKDRVP AAEHRLRERI LATFLFWLMD TYVVQLLRSF FYITESTFQK NRLFFYRKSV WSKLQSIGVR QHLERVRLRE LSQEEVRHHQ DTWLAMPICR LRFIPKPNGL RPIVNMSYSM GTRALGRRKQ AQHFTQRLKT LFSMLNYERT KHPHLMGSSV LGMNDIYRTW RAFVLRVRAL DQTPRMYFVK ADVTGAYDAI PQGKLVEVVA

NMIRHSESTY CIRQYAVVRR DSQGQVHKSF RRQVTTLSDL QPYMGQFLKH LQDSDASALR NSVVIEQSIS MNESSSSLFD FFLHFLRHSV VKIGDRCYTQ CQGIPQGSSL STLLCSLCFG DMENKLFAEV QRDGLLLRFV DDFLLVTPHL DQAKTFLSTL VHGVPEYGCM INLQKTVVNF PVEPGTLGGA APYQLPAHCL FPWCGLLLDT QTLEVFCDYS GYAQTSIKTS LTFQSVFKAG KTMRNKLLSV LRLKCHGLFL DLQVNSLQTV CINIYKIFLL QAYRFHACVI QLPFDQRVRK NLTFFLGIIS SQASCCYAIL KVKNPGMTLK ASGSFPPEAA HWLCYQAFLL KLAAHSVIYK CLLGPLRTAQ KLLCRKLPEA TMTILKAAAD PALSTDFQTI LD

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- · Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- · We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:

TERT

Alternative Name:

Tert (TERT Products)

Background:

Telomerase reverse transcriptase (EC 2.7.7.49) (Telomerase catalytic subunit), FUNCTION:

Telomerase is a ribonucleoprotein enzyme essential for the replication of chromosome termini in most eukaryotes. Active in progenitor and cancer cells. Inactive, or very low activity, in normal somatic cells. Catalytic component of the teleromerase holoenzyme complex whose main activity is the elongation of telomeres by acting as a reverse transcriptase that adds simple sequence repeats to chromosome ends by copying a template sequence within the RNA component of the enzyme. Catalyzes the RNA-dependent extension of 3'-chromosomal termini with the 6-nucleotide telomeric repeat unit, 5'-TTAGGG-3'. The catalytic cycle involves primer binding, primer extension and release of product once the template boundary has been reached or nascent product translocation followed by further extension. More active on substrates containing 2 or 3 telomeric repeats. Telomerase activity is regulated by a number of factors including telomerase complex-associated proteins, chaperones and polypeptide modifiers.

Modulates Wnt signaling. Plays important roles in aging and antiapoptosis (By similarity).
{ECO:0000250, ECO:0000269|PubMed:17130244, ECO:0000269|PubMed:19571879, ECO:0000269|PubMed:9582020}.

Molecular Weight:

128.0 kDa

Target Details

UniProt:	070372
Pathways:	Telomere Maintenance
Application Dataila	
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
	please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)