

TDT Protein, Bos taurus (His)

Cat. No.:	HY-P78946
Synonyms:	
Species:	Others
Source:	E. coli
Accession:	P06526
Gene ID:	281120
Molecular Weight:	Approximately 58.3 kDa

PROPERTIES

AA Sequence

MDPLCTASSG	PRKKRPRQVG	ASMASPPHDI	KFQNLVLFIL
EKKMGTTRRN	FLMELARRKG	FRVENELSDS	VTHIVAENNS
GSEVLEWLQV	QNI RASSQLE	LLDVSWLIES	MGAGKPVEIT
GKHQLVVRTD	YSATPNPGFQ	KTPPLAVKKI	SQYACQRKTT
LNNYNHIFTD	AFEILAENSE	FKENEVS YVT	FMRAASVLKS
LPFTIISMKD	TEGIPCLGDK	VKCIIEEIE	DGESSEVKAV
LNDERYQSFK	LFTSVFGVGL	KTSEKWF RMG	FRSLSKIMSD
KT LKFTKMQK	AGFLY YEDLV	SCVTRAEAEA	VGVLVKEAVW
AFLPDAFVTM	TGGFRRGKKI	GHDVDFLITS	PGSAEDEEQL
LPKVINLWEK	KGLLLY YDLV	ESTFEKFKLP	SRQVDTL DHF
QKCFILKLH	HQRVDS SKSN	QQEGKTWKA I	RVDLVMCPYE
NRA FALLGWT	GSRQFERDIR	RYATHERKMM	LDNHALYDKT
KRVFLKAESE	E E I FAHLGLD	Y I EPWERN A	

Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance Solution.

Reconstitution N/A.

Storage & Stability Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

Shipping Shipping with dry ice.

DESCRIPTION

Background

The TDT protein, functioning as a template-independent DNA polymerase, catalyzes the stochastic addition of deoxynucleoside 5'-triphosphates to the 3'-end of a DNA initiator, a process documented in scientific literature. Notably,

one of its in vivo roles involves adding nucleotides at the junction (N region) of rearranged immunoglobulin (Ig) heavy chain and T-cell receptor gene segments during the maturation phases of B- and T-cells. This underscores TDT's specific contribution to the diversification of immunoglobulin and T-cell receptor repertoires, elucidating its essential role in shaping the adaptive immune response during the maturation processes of both B- and T-cells.

Caution: Product has not been fully validated for medical applications. For research use only.

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