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TDRD5 Protein (AA 1-981) (Strep Tag)



Image



Go to Product page

Overview

Quantity:	1 mg
Target:	TDRD5
Protein Characteristics:	AA 1-981
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TDRD5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

MSEQERIQEC LRKEIRSLLI STKDGLSPQE LEKEYLLMVG NHLPLRILGY RSTMELVLDM
PDVVRVCPGA GGTVILKAIP DESTKGIASL VAKQRSSHKL RNSMHKGRPS IYSGPRSHRR
VPYRGRVAPI LPAVVKSELK DLLALSPVLL SDFEKAFAKR FGRSFQYMQY GFLSMFEVLN
AASDVISVEQ TRAGSLLMLK KSVTEEKPRG CPAGKIFTQP FRMKQGSYST GFPVAKPCFS
QPTSNMEPPK QIMSMEKTSK LNVVETSRLN HTEKLNQLEN TFKSVIAQIG PGGTISSELK
HKIKFVVSKF PEGLFISKLL GEYEVIFKEQ LSPKKLGFLN VTELVGALSD ILHVEFRKGH
QDLLVFDADK KPLPPVQSDK KIEAKACVSS PPRNSLSTAA VKETVWNCPS KKQKEPQQKI
CKKPNLVVKP LQLQVETNKS ELNLAMANHD IPPDAVPNKK LCRLPPLDTS SLIGVFVEYI
ISPSQFYIRI YSRDSSELLE DMMIEMRRCY SNQLVSDRYV MPECFIQPGH LCCVRISEDK
WWYRVIIHRV LEKQEVEVFY PDFGNIGIVQ KSSLRFLKCC YTKLPAQAIP CSLAWVRPVE
EHWTSKAILQ FQKLCGLKPL VGVVDEYVDG ILNIFLCDTS SNEDVYFHHV LRTEGHAIVC
RENISSKGFS ELNPLALYTT SSGGPEDIVL TELGYPSQQH YFNEDRKISP QSKESELRIL

DEIPTGMPCL ESVTIGDDIW DENWLPLQAK MGKGGDAASH LFTASLGGKN QYSSCKEMPQ KDWCFSTPKD TWDDSWQPSG LVNGTKVEVH KPEVLGAQEK NTGTNRTQKQ LDINGSSDSS TLPKLEEFCT SLTQSEQSAD GSQSEPNNSQ TQPKQIQLST AAPCSTTAVD DSAEKPSGSV ESSPEILKNE DFSSSRAITL YKDKRQESVD QLSLILSYEC QISQKLYIPR STATAALGAA ARLATSRSLL HWYPSVKRME A

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®):
	 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)
Grade:	Crystallography grade
Target Details	
Target:	TDRD5
Alternative Name:	TDRD5 (TDRD5 Products)
Background:	Tudor domain-containing protein 5,FUNCTION: Required during spermiogenesis to participate in the repression transposable elements and prevent their mobilization, which is essential for the germline integrity. Probably acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and govern the methylation and subsequent repression of transposons. Required for chromatoid body (CB) assembly (By similarity). {ECO:0000250}.
Molecular Weight:	109.7 kDa
UniProt:	Q8NAT2
Pathways:	Ribonucleoprotein Complex Subunit Organization
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.

Application Details

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)

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process