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TELO2 Protein (AA 1-837) (Strep Tag)



Overview

Quantity:	1 mg
Target:	TELO2
Protein Characteristics:	AA 1-837
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TELO2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

MEPAPSEVRL AVREAIHALS SSEDGGHIFC TLESLKRYLG EMEPPALPRE KEEFASAHFS
PVLRCLASRL SPAWLELLPH GRLEELWASF FLEGPADQAF LVLMETIEGA AGPSFRLMKM
ARLLARFLRE GRLAVLMEAQ CRQQTQPGFI LLRETLLGKV VALPDHLGNR LQQENLAEFF
PQNYFRLLGE EVVRVLQAVV DSLQGGLDSS VSFVSQVLGK ACVHGRQQEI LGVLVPRLAA
LTQGSYLHQR VCWRLVEQVP DRAMEAVLTG LVEAALGPEV LSRLLGNLVV KNKKAQFVMT
QKLLFLQSRL TTPMLQSLLG HLAMDSQRRP LLLQVLKELL ETWGSSSAIR HTPLPQQRHV
SKAVLICLAQ LGEPELRDSR DELLASMMAG VKCRLDSSLP PVRRLGMIVA EVVSARIHPE
GPPLKFQYEE DELSLELLAL ASPQPAGDGA SEAGTSLVPA TAEPPAETPA EIVDGGVPQA
QLAGSDSDLD SDDEFVPYDM SGDRELKSSK APAYVRDCVE ALTTSEDIER WEAALRALEG
LVYRSPTATR EVSVELAKVL LHLEEKTCVV GFAGLRQRAL VAVTVTDPAP VADYLTSQFY
ALNYSLRQRM DILDVLTLAA QELSRPGCLG RTPQPGSPSP NTPCLPEAAV SQPGSAVASD
WRVVVEERIR SKTQRLSKGG PRQGPAGSPS RFNSVAGHFF FPLLQRFDRP LVTFDLLGED

QLVLGRLAHT LGALMCLAVN TTVAVAMGKA LLEFVWALRF HIDAYVRQGL LSAVSSVLLS LPAARLLEDL MDELLEARSW LADVAEKDPD EDCRTLALRA LLLLQRLKNR LLPPASP

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.

Product Details

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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:	TELO2
Alternative Name:	TELO2 (TELO2 Products)
Background:	Telomere length regulation protein TEL2 homolog (Protein clk-2 homolog) (hCLK2),FUNCTION:
	Regulator of the DNA damage response (DDR). Part of the TTT complex that is required to
	stabilize protein levels of the phosphatidylinositol 3-kinase-related protein kinase (PIKK) family
	proteins. The TTT complex is involved in the cellular resistance to DNA damage stresses, like
	ionizing radiation (IR), ultraviolet (UV) and mitomycin C (MMC). Together with the TTT complex
	and HSP90 may participate in the proper folding of newly synthesized PIKKs. Promotes
	assembly, stabilizes and maintains the activity of mTORC1 and mTORC2 complexes, which
	regulate cell growth and survival in response to nutrient and hormonal signals. May be involved
	in telomere length regulation. {ECO:0000269 PubMed:12670948,
	ECO:0000269 PubMed:20810650}.
Molecular Weight:	91.7 kDa
UniProt:	Q9Y4R8
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

Application Details

modifications.

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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)