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Datasheet for ABIN3118651 TECR Protein (AA 1-308) (Strep Tag)





Overview

Quantity:	1 mg
Target:	TECR
Protein Characteristics:	AA 1-308
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TECR protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

	 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
Characteristics:	Key Benefits:
	have a special request, please contact us.
	system, a different complexity of the protein could make another tag necessary. In case you
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	MPIIPFLL
	LLVSCPNYTY EVGSWIGFAI MTQCLPVALF SLVGFTQMTI WAKGKHRSYL KEFRDYPPLR
	HPLYTPPTYG AQQVKLALAI FVICQLGNFS IHMALRDLRP AGSKTRKIPY PTKNPFTWLF
	SSRHTVVHLA CICHSFHYIK RLLETLFVHR FSHGTMPLRN IFKNCTYYWG FAAWMAYYIN
	DEDVLQKLPV GTTATLYFRD LGAQISWVTV FLTEYAGPLF IYLLFYFRVP FIYGHKYDFT
Sequence:	MKHYEVEILD AKTREKLCFL DKVEPHATIA EIKNLFTKTH PQWYPARQSL RLDPKGKSLK

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- 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 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!

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.

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Product Details	
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade
Target Details	
Target:	TECR

Alternative Name:	TECR (TECR Products)
Background:	Very-long-chain enoyl-CoA reductase (EC 1.3.1.93) (Synaptic glycoprotein SC2) (Trans-2,3-
	enoyl-CoA reductase) (TER),FUNCTION: Involved in both the production of very long-chain fatt
	acids for sphingolipid synthesis and the degradation of the sphingosine moiety in sphingolipid
	through the sphingosine 1-phosphate metabolic pathway (PubMed:25049234). Catalyzes the
	last of the four reactions of the long-chain fatty acids elongation cycle (PubMed:12482854).
	This endoplasmic reticulum-bound enzymatic process, allows the addition of 2 carbons to the
	chain of long- and very long-chain fatty acids/VLCFAs per cycle (PubMed:12482854). This
	enzyme reduces the trans-2,3-enoyl-CoA fatty acid intermediate to an acyl-CoA that can be
	further elongated by entering a new cycle of elongation (PubMed:12482854). Thereby, it
	participates in the production of VLCFAs of different chain lengths that are involved in multiple
	biological processes as precursors of membrane lipids and lipid mediators
	(PubMed:12482854). Catalyzes the saturation step of the sphingosine 1-phosphate metabolic
	pathway, the conversion of trans-2-hexadecenoyl-CoA to palmitoyl-CoA (PubMed:25049234).
	{EC0:0000269 PubMed:12482854, EC0:0000269 PubMed:25049234}.
Molecular Weight:	36.0 kDa

UniProt:

Q9NZ01

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

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Application [Details
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	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

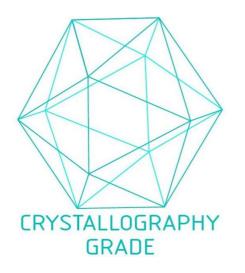


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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