

Datasheet for ABIN3129059

TKTL2 Protein (AA 1-627) (Strep Tag)



Overview

Quantity:	250 μg
Target:	TKTL2
Protein Characteristics:	AA 1-627
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TKTL2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Brand:	AliCE®
Sequence:	MALARDAKLE SDTLQVLQDV ANRLRIHSIR ATCACSSGHP TSCCSVAEIM AVLFFHTMRY
	KQADPEHPDN DRFVLSKGHA APILYAVWVE VGRICESDLL NLRKIHCDLE GHPTPRLSFV
	DVATGSLGQG LGAACGMAYT GKYFDKASYR VFCLMGDGES SEGSVWEALA FASHYNLDNL
	VAIFDVNRLG QSGTAPLEHC TAVYEKRCQA FGWNTYVVDG HDVEALCQAF WKAAQVKNKP
	TALIAKTFKG RGIPNVEDAE NWHGKPMPKD RADGIVKLIE NRIQTNRNLT PKPPIEDSPR
	ISMSNTKMTS LPVYKLGDMI ATREAYGLAL AKLGQSNQRV IVLDGDTKNS TFSEVFKKEH
	PERFIECFIA EQNMVSVALG CATRGRTIAF VSTFAAFLTR AFDQIRMGAI SQTNINFVGS
	HCGVSVGEDG PSQMALEDLA MFRSIPNCTV FYPSDAVSTE HAVYLAANTK GMCFIRTTRP
	KTAVIYTAEE NFVIGQAKVI RQSAVDKVTV IGAGVTLHEA LVAAEELSQQ GIFIRVIDLF TIKPLDAVT
	IQSAKATGGQ IITVEDHYRE GGIGEAVCAA ISREPDIVVR QLAVTEVPRS GKPSELLDMF
	GISARHIIAA VKDTVMK

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Product Details	
Grade:	custom-made
Target Details	
Target:	TKTL2
Alternative Name:	Tktl2 (TKTL2 Products)
Background:	Transketolase-like protein 2 (EC 2.2.1.1),FUNCTION: Plays an essential role in total transketolase activity and cell proliferation in cancer cells, after transfection with anti-TKTL1 siRNA, total transketolase activity dramatically decreases and proliferation was significantly inhibited in cancer cells. Plays a pivotal role in carcinogenesis (By similarity). {EC0:0000250}.
Molecular Weight:	68.4 kDa
UniProt:	Q9D4D4
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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months