

Datasheet for ABIN3073985 THAP4 Protein (AA 1-577) (Strep Tag)



Overview

Quantity:	250 µg
Target:	THAP4
Protein Characteristics:	AA 1-577
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This THAP4 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MVICCAAVNC SNRQGKGEKR AVSFHRFPLK DSKRLIQWLK AVQRDNWTPT KYSFLCSEHF
	TKDSFSKRLE DQHRLLKPTA VPSIFHLTEK KRGAGGHGRT RRKDASKATG GVRGHSSAAT
	SRGAAGWSPS SSGNPMAKPE SRRLKQAALQ GEATPRAAQE AASQEQAQQA LERTPGDGLA
	TMVAGSQGKA EASATDAGDE SATSSIEGGV TDKSGISMDD FTPPGSGACK FIGSLHSYSF
	SSKHTRERPS VPREPIDRKR LKKDVEPSCS GSSLGPDKGL AQSPPSSSLT ATPQKPSQSP
	SAPPADVTPK PATEAVQSEH SDASPMSINE VILSASGACK LIDSLHSYCF SSRQNKSQVC
	CLREQVEKKN GELKSLRQRV SRSDSQVRKL QEKLDELRRV SVPYPSSLLS PSREPPKMNP
	VVEPLSWMLG TWLSDPPGAG TYPTLQPFQY LEEVHISHVG QPMLNFSFNS FHPDTRKPMH
	RECGFIRLKP DTNKVAFVSA QNTGVVEVEE GEVNGQELCI ASHSIARISF AKEPHVEQIT
	RKFRLNSEGK LEQTVSMATT TQPMTQHLHV TYKKVTP
	Sequence without tag. The proposed Strep-Tag is based on experience \ensuremath{s} with the expression

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	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 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 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).

Grade:

custom-made

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Target Details

Target:	THAP4
Alternative Name:	THAP4 (THAP4 Products)
Background:	Peroxynitrite isomerase THAP4 (EC 5.99) (Ferric Homo sapiens nitrobindin) (Hs-Nb(III)) (THAP domain-containing protein 4),FUNCTION: Heme-binding protein able to scavenge peroxynitrite and to protect free L-tyrosine against peroxynitrite-mediated nitration, by acting as a peroxynitrite isomerase that converts peroxynitrite to nitrate. Therefore, this protein likely plays a role in peroxynitrite sensing and in the detoxification of reactive nitrogen and oxygen species (RNS and ROS, respectively). Is able to bind nitric oxide (NO) in vitro, but may act as a sensor of peroxynitrite levels in vivo, possibly modulating the transcriptional activity residing in the N-terminal region. {ECO:0000269 PubMed:30524950, ECO:0000269 PubMed:32295384}.
Molecular Weight:	62.9 kDa
UniProt:	Q8WY91
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.

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Handling

	Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months