

Datasheet for ABIN3110062 MBTPS2 Protein (AA 1-519) (Strep Tag)



Overview

Quantity:	250 µg
Target:	MBTPS2
Protein Characteristics:	AA 1-519
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MBTPS2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MIPVSLVVVV VGGWTVVYLT DLVLKSSVYF KHSYEDWLEN NGLSISPFHI RWQTAVFNRA
	FYSWGRRKAR MLYQWFNFGM VFGVIAMFSS FFLLGKTLMQ TLAQMMADSP SSYSSSSSS
	SSSSSSSSS SSSSSLHNE QVLQVVVPGI NLPVNQLTYF FTAVLISGVV HEIGHGIAAI
	REQVRFNGFG IFLFIIYPGA FVDLFTTHLQ LISPVQQLRI FCAGIWHNFV LALLGILALV LLPVILLPFY
	YTGVGVLITE VAEDSPAIGP RGLFVGDLVT HLQDCPVTNV QDWNECLDTI AYEPQIGYCI
	SASTLQQLSF PVRAYKRLDG STECCNNHSL TDVCFSYRNN FNKRLHTCLP ARKAVEATQV
	CRTNKDCKKS SSSSFCIIPS LETHTRLIKV KHPPQIDMLY VGHPLHLHYT VSITSFIPRF
	NFLSIDLPVV VETFVKYLIS LSGALAIVNA VPCFALDGQW ILNSFLDATL TSVIGDNDVK
	DLIGFFILLG GSVLLAANVT LGLWMVTAR
	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

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	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:	MBTPS2
Alternative Name:	MBTPS2 (MBTPS2 Products)
Background:	Membrane-bound transcription factor site-2 protease (EC 3.4.24.85) (Endopeptidase S2P)
	(Sterol regulatory element-binding proteins intramembrane protease) (SREBPs intramembrane
	protease),FUNCTION: Zinc metalloprotease that mediates intramembrane proteolysis of
	proteins such as ATF6, ATF6B, SREBF1/SREBP1 and SREBF2/SREBP2 (PubMed:11163209,
	PubMed:10805775). Catalyzes the second step in the proteolytic activation of the sterol
	regulatory element-binding proteins (SREBPs) SREBF1/SREBP1 and SREBF2/SREBP2: cleaves
	SREBPs within the first transmembrane segment, thereby releasing the N-terminal segment
	with a portion of the transmembrane segment attached (PubMed:10805775,
	PubMed:27380894, PubMed:9659902). Mature N-terminal SREBP fragments shuttle to the
	nucleus and activate gene transcription (PubMed:10805775, PubMed:27380894,
	PubMed:9659902). Also mediates the second step in the proteolytic activation of the cyclic
	AMP-dependent transcription factor ATF-6 (ATF6 and ATF6B) (PubMed:11163209). Involved in
	intramembrane proteolysis during bone formation (PubMed:27380894). In astrocytes and
	osteoblasts, upon DNA damage and ER stress, mediates the second step of the regulated
	intramembrane proteolytic activation of the transcription factor CREB3L1, leading to the
	inhibition of cell-cycle progression (PubMed:16417584). {ECO:0000269 PubMed:10805775,
	ECO:0000269 PubMed:11163209, ECO:0000269 PubMed:16417584,
	ECO:0000269 PubMed:27380894, ECO:0000269 PubMed:9659902}.
Molecular Weight:	57.4 kDa
UniProt:	043462
Pathways:	ER-Nucleus Signaling
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

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Application Details	
	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.
Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles.
Buffer: Handling Advice: Storage:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles. -80 °C
Buffer: Handling Advice: Storage: Storage Comment:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles. -80 °C Store at -80°C.