Datasheet for ABIN3130012 ISYNA1 Protein (AA 1-557) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	ISYNA1
Protein Characteristics:	AA 1-557
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ISYNA1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

	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
	GDANGHPQAP TPKLSTA
	RQRSCIENIF RACVGLPPQN HMLLEHKMER PGPGIKPGEV VATSPLPCKK EPTPATNGCT
	LLAAPIMLDL VLLTELCQRV SFCTDSDPEP QGFHTVLSLL SFLFKAPLVP PGSPVVNALF
	DDMVHSNHVL YAPGERPDHC VVIKYVPYVG DSKRALDEYT SELMLGGTNT LVLHNTCEDS
	GDDFKSGQTK VKSVLVDFLI GSGLKTMSIV SYNHLGNNDG QNLSAPLQFR SKEVTKSSVV
	RNDTAENLLH TIQLGLEVSP STLFAVASIL EDCAFLNGSP QNTLVPGALE LASQRHVFVG
	PEFIAANQTA RADNLIPGTR AQQLEQIRKD IRDFRSSAGL DKVIVLWTAN TERFCEVVPG
	VPFSALLPMV APNDLVFDGW DISSLNLAEA MRRAQVLDCG LQEQLWPHME SLRPRPSVYI
	VMLVGWGGNN GSTLTAAVLA NRLRLTWPTR TGRKEANYYG SLTQAGTVNL GLDENGREVF
Sequence:	MEPAAEILVD SPDVVYSPET IEARYEYRTT RVSREGGVLR VQPRATRFTF RTARQVPRLG

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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 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 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.

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	 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:	\ge 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:	ISYNA1
Alternative Name:	Isyna1 (ISYNA1 Products)
Background:	Inositol-3-phosphate synthase 1 (IPS 1) (EC 5.5.1.4) (Myo-inositol 1-phosphate synthase) (MI-1- P synthase) (MIP synthase),FUNCTION: Key enzyme in myo-inositol biosynthesis pathway that catalyzes the conversion of glucose 6-phosphate to 1-myo-inositol 1-phosphate in a NAD- dependent manner. Rate-limiting enzyme in the synthesis of all inositol-containing compounds (By similarity). {ECO:0000250 UniProtKB:Q9NPH2}.
Molecular Weight:	60.9 kDa
UniProt:	Q9JHU9

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

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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)