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Datasheet for ABIN3117100 HAS2 Protein (AA 1-552) (Strep Tag)





Overview

Quantity:	1 mg
Target:	HAS2
Protein Characteristics:	AA 1-552
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HAS2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:	MHCERFLCIL RIIGTTLFGV SLLLGITAAY IVGYQFIQTD NYYFSFGLYG AFLASHLIIQ SLFAFLEHRK
	MKKSLETPIK LNKTVALCIA AYQEDPDYLR KCLQSVKRLT YPGIKVVMVI DGNSEDDLYM
	MDIFSEVMGR DKSATYIWKN NFHEKGPGET DESHKESSQH VTQLVLSNKS ICIMQKWGGK
	REVMYTAFRA LGRSVDYVQV CDSDTMLDPA SSVEMVKVLE EDPMVGGVGG DVQILNKYDS
	WISFLSSVRY WMAFNIERAC QSYFGCVQCI SGPLGMYRNS LLHEFVEDWY NQEFMGNQCS
	FGDDRHLTNR VLSLGYATKY TARSKCLTET PIEYLRWLNQ QTRWSKSYFR EWLYNAMWFH
	KHHLWMTYEA IITGFFPFFL IATVIQLFYR GKIWNILLFL LTVQLVGLIK SSFASCLRGN
	IVMVFMSLYS VLYMSSLLPA KMFAIATINK AGWGTSGRKT IVVNFIGLIP VSVWFTILLG
	GVIFTIYKES KRPFSESKQT VLIVGTLLYA CYWVMLLTLY VVLINKCGRR KKGQQYDMVL DV
	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.

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Product Details

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 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 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.
- 2. 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

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Product Details	
	Western blot.
Purity:	>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)
Grade:	Crystallography grade
Target Details	
Target:	HAS2
Alternative Name:	HAS2 (HAS2 Products)
Background:	Hyaluronan synthase 2 (EC 2.4.1.212) (Hyaluronate synthase 2) (Hyaluronic acid synthase 2) (HA synthase 2),FUNCTION: Catalyzes the addition of GlcNAc or GlcUA monosaccharides to the nascent hyaluronan polymer (PubMed:20507985, PubMed:32993960, PubMed:23303191, PubMed:21228273) (Probable). Therefore, it is essential to hyaluronan synthesis a major component of most extracellular matrices that has a structural role in tissues architectures and regulates cell adhesion, migration and differentiation (PubMed:8798477, PubMed:21228273, PubMed:20507985). This is one of three isoenzymes responsible for cellular hyaluronan synthesis and it is particularly responsible for the synthesis of high molecular mass hyaluronan (By similarity). {ECO:0000250 UniProtKB:P70312, ECO:0000269 PubMed:20507985, ECO:0000269 PubMed:21228273, ECO:0000269 PubMed:8798477, ECO:0000269 PubMed:32993960, ECO:0000269 PubMed:8798477,
Molecular Weight:	63.6 kDa
UniProt:	Q92819
Pathways:	Glycosaminoglycan Metabolic Process
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

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	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. 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

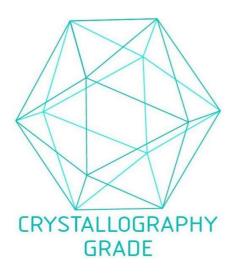


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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