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Datasheet for ABIN3081448 HPS1 Protein (AA 1-700) (Strep Tag)





Overview

Quantity:	1 mg
Target:	HPS1
Protein Characteristics:	AA 1-700
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HPS1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MKCVLVATEG AEVLFYWTDQ EFEESLRLKF GQSENEEEEL PALEDQLSTL LAPVIISSMT
	MLEKLSDTYT CFSTENGNFL YVLHLFGECL FIAINGDHTE SEGDLRRKLY VLKYLFEVHF
	GLVTVDGHLI RKELRPPDLA QRVQLWEHFQ SLLWTYSRLR EQEQCFAVEA LERLIHPQLC
	ELCIEALERH VIQAVNTSPE RGGEEALHAF LLVHSKLLAF YSSHSASSLR PADLLALILL
	VQDLYPSEST AEDDIQPSPR RARSSQNIPV QQAWSPHSTG PTGGSSAETE TDSFSLPEEY
	FTPAPSPGDQ SSGSTIWLEG GTPPMDALQI AEDTLQTLVP HCPVPSGPRR IFLDANVKES
	YCPLVPHTMY CLPLWQGINL VLLTRSPSAP LALVLSQLMD GFSMLEKKLK EGPEPGASLR
	SQPLVGDLRQ RMDKFVKNRG AQEIQSTWLE FKAKAFSKSE PGSSWELLQA CGKLKRQLCA
	IYRLNFLTTA PSRGGPHLPQ HLQDQVQRLM REKLTDWKDF LLVKSRRNIT MVSYLEDFPG
	LVHFIYVDRT TGQMVAPSLN CSQKTSSELG KGPLAAFVKT KVWSLIQLAR RYLQKGYTTL
	LFQEGDFYCS YFLWFENDMG YKLQMIEVPV LSDDSVPIGM LGGDYYRKLL RYYSKNRPTE
	AVRCYELLAL HLSVIPTDLL VQQAGQLARR LWEASRIPLL

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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®):

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	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.
	 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:	>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:	HPS1
Alternative Name:	HPS1 (HPS1 Products)
Background:	BLOC-3 complex member HPS1 (Hermansky-Pudlak syndrome 1 protein),FUNCTION: Component of the BLOC-3 complex, a complex that acts as a guanine exchange factor (GEF) for RAB32 and RAB38, promotes the exchange of GDP to GTP, converting them from an inactive GDP-bound form into an active GTP-bound form. The BLOC-3 complex plays an important role in the control of melanin production and melanosome biogenesis and promotes the membrane localization of RAB32 and RAB38 (PubMed:23084991). {ECO:0000269 PubMed:23084991}.
Molecular Weight:	79.3 kDa
UniProt:	Q92902
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

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	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