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Datasheet for ABIN3134572 SIAH1 Protein (AA 1-282) (His tag)

Image



Overview

Quantity:	1 mg	
Target:	SIAH1	
Protein Characteristics:	AA 1-282	
Origin:	Mouse	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This SIAH1 protein is labelled with His tag.	
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)	
Product Details		
Sequence:	MSRQTATALP TGTSKCPPSQ RVPALTGTTA SNNDLASLFE CPVCFDYVLP PILQCQSGHL	
	VCSNCRPKLT CCPTCRGPLG SIRNLAMEKV ANSVLFPCKY ASSGCEITLP HTEKAEHEEL	
	CEFRPYSCPC PGASCKWQGS LDAVMPHLMH QHKSITTLQG EDIVFLATDI NLPGAVDWVM	
	MQSCFGFHFM LVLEKQEKYD GHQQFFAIVQ LIGTRKQAEN FAYRLELNGH RRRLTWEATP	
	RSIHEGIATA IMNSDCLVFD TSIAQLFAEN GNLGINVTIS MC	
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a	
	special request, please contact us.	
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Siah1a Protein (raised in Insect Cells) purified by multi-step, protein-specific process 	
	to ensure crystallization grade.	
	• 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	

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	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	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.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	

Target Details

Target:	SIAH1	
Alternative Name:	Siah1a (SIAH1 Products)	
Background:	E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal	
	degradation of target proteins. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-	

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conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to
targeted substrates. Mediates E3 ubiquitin ligase activity either through direct binding to
substrates or by functioning as the essential RING domain subunit of larger E3 complexes.
Triggers the ubiquitin-mediated degradation of many substrates, including proteins involved in
transcription regulation (ELL2, MYB, POU2AF1, PML and RBBP8), a cell surface receptor (DCC),
the cell-surface receptor-type tyrosine kinase FLT3, the cytoplasmic signal transduction
molecules (KLF10/TIEG1 and NUMB), an antiapoptotic protein (BAG1), a microtubule motor
protein (KIF22), a protein involved in synaptic vesicle function in neurons (SYP), a structural
protein (CTNNB1) and SNCAIP. Confers constitutive instability to HIPK2 through proteasomal
degradation. It is thereby involved in many cellular processes such as apoptosis, tumor
suppression, cell cycle, axon guidance, transcription, spermatogenesis and TNF-alpha
signaling. Has some overlapping function with SIAH2. Required for completion of meiosis I in
males. Induces apoptosis in cooperation with PEG3. Upon nitric oxid (NO) generation that
follows apoptotic stimulation, interacts with S-nitrosylated GAPDH, mediating the translocation
of GAPDH to the nucleus. GAPDH acts as a stabilizer of SIAH1, facilitating the degradation of
nuclear proteins. {ECO:0000269 PubMed:10681424, ECO:0000269 PubMed:11884614,
ECO:0000269 PubMed:16615911}.

Molecular Weight:	32.1 kDa Including tag.
UniProt:	P61092

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 gurantee though.	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

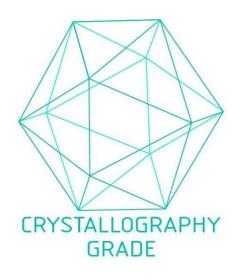


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process