Datasheet for ABIN7563491

SIAH1 Protein (AA 1-282) (His tag)

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Overview

Quantity:	1 mg
Target:	SIAH1
Protein Characteristics:	AA 1-282
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIAH1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Siah1a Protein expressed in mammalian cells.
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. The proposed Purification-Tag is based on experiences 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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	SIAH1
Alternative Name:	Siah1a (SIAH1 Products)
Background:	E3 ubiquitin-protein ligase SIAH1A (EC 2.3.2.27) (RING-type E3 ubiquitin transferase SIAH1A) (Seven in absentia homolog 1a) (Siah-1a) (Siah1a) (mSiah-1a),FUNCTION: E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of target proteins. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-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

Target Details

	regulation, spermatogenesis and TNF-alpha signaling. Has some overlapping function with SIAH2 (By similarity). Required for completion of meiosis I in males (PubMed:11884614). Induces apoptosis in cooperation with PEG3 (PubMed:10681424). 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 (By similarity). Mediates ubiquitination and degradation of EGLN2 and EGLN3 in response to the unfolded protein response (UPR), leading to their degradation and subsequent stabilization of ATF4 (PubMed:24809345). Also part of the Wnt signaling pathway in which it mediates the Wnt-induced ubiquitin-mediated proteasomal degradation of AXIN1. {ECO:0000250|UniProtKB:Q8IUQ4, ECO:0000250|UniProtKB:Q920M9, ECO:0000269|PubMed:10681424, ECO:0000269|PubMed:11884614, ECO:0000269|PubMed:24809345, ECO:0000269|PubMed:28546513}.
Molecular Weight:	31.1 kDa
UniProt:	P61092

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months