

Datasheet for ABIN3130681 SMURF2 Protein (AA 1-748) (Strep Tag)



Overview

Quantity:	250 μg
Target:	SMURF2
Protein Characteristics:	AA 1-748
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMURF2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSNPGGRRNG PVKLRLTVLC AKNLVKKDFF RLPDPFAKVV VDGSGQCHST DTVKNTLDPK
	WNQHYDLYIG KSDSVTISVW NHKKIHKKQG AGFLGCVRLL SNAINRLKDT GYQRLDLCKL
	GPNDNDTVRG QIVVSLQSRD RIGTGGQVVD CSRLFDNDLP DGWEERRTAS GRIQYLNHIT
	RTTQWERPTR PASEYSSPGR PLSCFVDENT PITGTNGATC GHSSDPRLAE RRVRSQRHRN
	YMSRTHLHTP PDLPEGYEQR TTQQGQVYFL HTQTGVSTWH DPRVPRDLSN INCEELGPLP
	PGWEIRNTAT GRVYFVDHNN RTTQFTDPRL SANLHLVLNR QNQLKDQQQQ QVVPLCPDDT
	ECLTVPRYKR DLVQKLKILR QELSQQQPQA GHCRIEVSRE EIFEESYRQV MKMRPKDLWK
	RLMIKFRGEE GLDYGGVARE WLYLLSHEML NPYYGLFQYS RDDIYTLQIN PDSAVNPEHL
	SYFHFVGRIM GMAVFHGHYI DGGFTLPFYK QLLGKSITLD DMELVDPDLH NSLVWILEND
	ITGVLDHTFC VEHNAYGEII QHELKPNGKS IPVTEENKKE YVRLYVNWRF LRGIEAQFLA
	LQKGFNEVIP QHLLKTFDEK ELELIICGLG KIDVSDWKVN TRLKHCTPDS NVVKWFWKAV

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EFFDEERRAR LLQFVTGSSR VPLQGFKALQ GAAGPRLFTI HQIDACTNNL PKAHTCFNRI DIPPYESYEK LYEKLLTAIE ETCGFAVE

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.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

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Product Details

 Purity:
 > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

 Grade:
 custom-made

Target Details

Target:	SMURF2
Alternative Name:	Smurf2 (SMURF2 Products)
Background:	E3 ubiquitin-protein ligase SMURF2 (EC 2.3.2.26) (HECT-type E3 ubiquitin transferase SMURF2
	(SMAD ubiquitination regulatory factor 2) (SMAD-specific E3 ubiquitin-protein ligase
	2),FUNCTION: E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-
	conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to
	targeted substrates. Interacts with SMAD7 to trigger SMAD7-mediated transforming growth
	factor beta/TGF-beta receptor ubiquitin-dependent degradation, thereby down-regulating TGF-
	beta signaling. In addition, interaction with SMAD7 activates autocatalytic degradation, which i
	prevented by interaction with AIMP1. Also forms a stable complex with TGF-beta receptor-
	mediated phosphorylated SMAD1, SMAD2 and SMAD3, and targets SMAD1 and SMAD2 for
	ubiquitination and proteasome-mediated degradation. SMAD2 may recruit substrates, such as
	SNON, for ubiquitin-dependent degradation. Negatively regulates TGFB1-induced epithelial-
	mesenchymal transition and myofibroblast differentiation. {ECO:0000250 UniProtKB:Q9HAU4}
Molecular Weight:	86.2 kDa
UniProt:	A2A5Z6
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

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Application Details	
	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months