

Datasheet for ABIN3077137 SMYD4 Protein (AA 1-804) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SMYD4
Protein Characteristics:	AA 1-804
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMYD4 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MDLPVDEWKS YLLQKWASLP TSVQVTISTA ETLRDIFLHS SSLLQPEDEL FLKRLSKGYL
	VGKDSDAPLF YREEGNKKFQ EKDYTGAAVL YSKGVSHSRP NTEDMSLCHA NRSAALFHLG
	QYETCLKDIN RAQTHGYPER LQPKIMLRKA ECLVALGRLQ EASQTISDLE RNFTATPALA
	DVLPQTLQRN LHRLKMKMQE KDSLTESFPA ALAKTLEDAA LREENEQLSN ASSSIGLCVD
	PLKGRCLVAT KDILPGELLV QEDAFVSVLN PGELPPPHHG LDSKWDTRVT NGDLYCHRCL
	KHTLATVPCD GCSYAKYCSQ ECLQQAWELY HRTECPLGGL LLTLGVFCHI ALRLTLLVGF
	EDVRKIITKL CDKISNKDIC LPESNNQVKT LNYGLGESEK NGNIVETPIP GCDINGKYEN
	NYNAVFNLLP HTENHSPEHK FLCALCVSAL CRQLEAASLQ AIPTERIVNS SQLKAAVTPE
	LCPDVTIWGV AMLRHMLQLQ CNAQAMTTIQ HTGPKGSIVT DSRQVRLATG IFPVISLLNH
	SCSPNTSVSF ISTVATIRAS QRIRKGQEIL HCYGPHKSRM GVAERQQKLR SQYFFDCACP
	ACQTEAHRMA AGPRWEAFCC NSCGAPMQGD DVLRCGSRSC AESAVSRDHL VSRLQDLQQQ

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3077137 | 02/25/2025 | Copyright antibodies-online. All rights reserved. VRVAQKLLRD GELERAVQRL SGCQRDAESF LWAEHAVVGE IADGLARACA ALGDWQKSAT HLQRSLYVVE VRHGPSSVEM GHELFKLAQI FFNGFAVPEA LSTIQKAEEV LSLHCGPWDD EIQELQKMKS CLLDLPPTPV GPAL

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 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
 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

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Product Details	
	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	
Target:	SMYD4
Alternative Name:	SMYD4 (SMYD4 Products)
Background:	SET and MYND domain-containing protein 4 (EC 2.1.1),FUNCTION: Plays a critical role in cardiac development (PubMed:30110327). Acts as a key epigenetic regulator of gene expression during cardiac development via its dual activities as a methyltransferase and negative regulator of HDAC1 (By similarity). {ECO:0000250 UniProtKB:Q08C84, ECO:0000269 PubMed:30110327}.
Molecular Weight:	89.2 kDa
UniProt:	Q8IYR2
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 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

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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