

# Datasheet for ABIN3135879 LSD1 Protein (AA 1-853) (Strep Tag)



Overview

Quantity:	250 µg
Target:	LSD1 (KDM1A)
Protein Characteristics:	AA 1-853
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LSD1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

# Product Details

Brand:	AliCE®
Sequence:	MLSGKKAAAA AAAAAAAAA GTEAGSGAAG GAENGSEVAA PPAGLTGPTD MATGAAGERT
	PRKKEPPRAS PPGGLAEPPG SAGPQAGPTA GPGSATPMET GIAETPEGRR TSRRKRAKVE
	YREMDESLAN LSEDEYYSEE ERNAKAEKEK KLPPPPPQAP PEEENESEPE EPSGVEGAAF
	QSRLPHDRMT SQEAACFPDI ISGPQQTQKV FLFIRNRTLQ LWLDNPKIQL TFEATLQQLE
	APYNSDTVLV HRVHSYLERH GLINFGIYKR IKPLPIKKTG KVIIIGSGVS GLAAARQLQS
	FGMDVTLLEA RDRVGGRVAT FRKGNYVADL GAMVVTGLGG NPMAVVSKQV NMELAKIKQK
	CPLYEANGQA VPKEKDEMVE QEFNRLLEAT SYLSHQLDFN VLNNKPVSLG QALEVVIQLQ
	EKHVKDEQIE HWKKIVKTQE ELKELLNKMV NLKEKIKELH QQYKEASEVK PPRDITAEFL
	VKSKHRDLTA LCKEYDELAE TQGKLEEKLQ ELEANPPSDV YLSSRDRQIL DWHFANLEFA
	NATPLSTLSL KHWDQDDDFE FTGSHLTVRN GYSCVPVALA EGLDIKLNTA VRQVRYTASG
	CEVIAVNTRS TSQTFIYKCD AVLCTLPLGV LKQQPPAVQF VPPLPEWKTS AVQRMGFGNL

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 ABIN3135879 | 02/26/2025 | Copyright antibodies-online. All rights reserved. NKVVLCFDRV FWDPSVNLFG HVGSTTASRG ELFLFWNLYK APILLALVAG EAAGIMENIS DDVIVGRCLA ILKGIFGSSA VPQPKETVVS RWRADPWARG SYSYVAAGSS GNDYDLMAQP ITPGPSIPGA PQPIPRLFFA GEHTIRNYPA TVHGALLSGL REAGRIADQF LGAMYTLPRQ ATPGVPAQQS PSM

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.

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Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression
	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	
Target:	LSD1 (KDM1A)
Alternative Name:	Kdm1a (KDM1A Products)
Background:	Lysine-specific histone demethylase 1A (EC 1.14.99.66) (BRAF35-HDAC complex protein
	BHC110) (Flavin-containing amine oxidase domain-containing protein 2),FUNCTION: Histone
	demethylase that can demethylate both 'Lys-4' (H3K4me) and 'Lys-9' (H3K9me) of histone H3,
	thereby acting as a coactivator or a corepressor, depending on the context. Acts by oxidizing
	the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. Act
	as a corepressor by mediating demethylation of H3K4me, a specific tag for epigenetic
	transcriptional activation. Demethylates both mono- (H3K4me1) and di-methylated (H3K4me2)
	H3K4me. May play a role in the repression of neuronal genes. Alone, it is unable to demethylate
	H3K4me on nucleosomes and requires the presence of RCOR1/CoREST to achieve such
	activity. Also acts as a coactivator of androgen receptor (ANDR)-dependent transcription, by
	being recruited to ANDR target genes and mediating demethylation of H3K9me, a specific tag
	for epigenetic transcriptional repression. The presence of PRKCB in ANDR-containing
	complexes, which mediates phosphorylation of 'Thr-6' of histone H3 (H3T6ph), a specific tag
	that prevents demethylation H3K4me, prevents H3K4me demethylase activity of KDM1A.
	Demethylates di-methylated 'Lys-370' of p53/TP53 which prevents interaction of p53/TP53 wit
	TP53BP1 and represses p53/TP53-mediated transcriptional activation (By similarity).
	Demethylates and stabilizes the DNA methylase DNMT1 (By similarity). Demethylates
	methylated 'Lys-44' and methylated 'Lys-119' of SOX2 (By similarity). Required for gastrulation
	during embryogenesis. Component of a RCOR/GFI/KDM1A/HDAC complex that suppresses,
	via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage
	blood cell development. Effector of SNAI1-mediated transcription repression of E-
	cadherin/CDH1, CDN7 and KRT8. Required for the maintenance of the silenced state of the
	SNAI1 target genes E-cadherin/CDH1 and CDN7. {ECO:0000250 UniProtKB:060341,
	EC0:0000269 PubMed:17707228, EC0:0000269 PubMed:19098913}.
Molecular Weight:	92.9 kDa

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Target Details	
UniProt:	Q6ZQ88
Pathways:	Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, Negative Regulation of intrinsic apoptotic Signaling, Warburg Effect
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:	<ul> <li>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.</li> <li>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!</li> </ul>
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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months