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Datasheet for ABIN3126843 SMYD2A Protein (AA 1-433) (His tag)

I Image



Overview

Quantity:	1 mg
Target:	SMYD2A
Protein Characteristics:	AA 1-433
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMYD2A protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

	 Mouse Smyd2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts.
	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	PYISEIKQEI ESH
	KYGQKIIKPY SKHYPVYSLN VASMWLKLGR LYMGLENKAA GEKALKKAIA IMEVAHGKDH
	VIEEFRRAKH YKSPSELLEI CELSQEKMSS VFEDSNVYML HMMYQAMGVC LYMQDWEGAL
	IDLLYPTEDR NDRLRDSYFF TCECRECTTK DKDKAKVEVR KLSSPPQAEA IRDMVRYARN
	CNGFTIEDEE LSHLGSAIFP DVALMNHSCC PNVIVTYKGT LAEVRAVQEI HPGDEVFTSY
	ERTPSEKLLA VREFESHLDK LDNEKKDLIQ SDIAALHQFY SKYLEFPDHS SLVVLFAQVN
	GLSKCGRCKQ AFYCDVECQK EDWPLHKLEC SSMVVLGENW NPSETVRLTA RILAKQKIHP
Sequence:	MRAEARGGLE RFCSAGKGRG LRALRPFHVG DLLFSCPAYA CVLTVGERGH HCECCFARKE

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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
	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:
	1. 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. 2. 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:	SMYD2A
Alternative Name:	Smyd2 (SMYD2A Products)

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Target Details	
Background:	Protein-lysine N-methyltransferase that methylates both histones and non-histone proteins, including p53/TP53 and RB1. Specifically methylates histone H3 'Lys-4' (H3K4me) and dimethylates histone H3 'Lys-36' (H3K36me2). Shows even higher methyltransferase activity on p53/TP53. Monomethylates 'Lys-370' of p53/TP53, leading to decreased DNA-binding activity and subsequent transcriptional regulation activity of p53/TP53. Monomethylates RB1 at 'Lys- 860'. {ECO:0000269 PubMed:16805913}.
Molecular Weight:	50.5 kDa Including tag.
UniProt:	Q8R5A0
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.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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

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