

Datasheet for ABIN7546249
SMYD1 Protein (AA 1-490) (His tag)



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Overview

Quantity:	1 mg
Target:	SMYD1
Protein Characteristics:	AA 1-490
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMYD1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SMYD1 Protein expressed in mammalian cells.
Sequence:	<p>MTIGRMENVE VFTAEGKGRG LKATKEFWAA DIIFAERAYS AVVFDLSLVNF VCHTCFKRQE KLHRCGQCKF AHYCDRTCQK DAWLNHKNEC SAIKRYGKVP NENIRLAARI MWRVEREGTG LTEGCLVSVD DLQNHVEHFG EEEQKDLRVD VDTFLQYWPP QSQQFSMQYI SHIFGVINCN GFTLSDQRGL QAVGVGIFPN LGLVNHDCWP NCTVIFNNGN HEAVKSMFHT QMRIELRALG KISEGEELTV SYIDFLNVSE ERKRQLKKQY YFDCTCEHCQ KKLKDDLFLG VKDNPKPSQE VVKEMIQFSK DTLEKIDKAR SEGlyHEVVK LCRECLEKQE PVFADTNIYM LRMLSIVSEV LSYLQAFEEA SFYARRMVDG YMKLYHPNNA QLGMAVMRAG LTNWHAGNIE VGHGMICKAY AILLVTHGPS HPITKDLEAM RVQTEMELRM FRQNEFMYYK MREAALNNQP MQVMAEPSNE PSPALFHKKQ 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.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

isoform, please contact us regarding an individual offer.

Characteristics:

Key Benefits:

- 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:

SMYD1

Alternative Name:

SMYD1 ([SMYD1 Products](#))

Background:

Histone-lysine N-methyltransferase SMYD1 (EC 2.1.1.354) (SET and MYND domain-containing protein 1),FUNCTION: Methylates histone H3 at 'Lys-4' (H3K4me), seems able to perform both mono-, di-, and trimethylation. Acts as a transcriptional repressor. Essential for cardiomyocyte differentiation and cardiac morphogenesis. {ECO:0000250|UniProtKB:P97443}.

Molecular Weight:

56.6 kDa

UniProt:

[Q8NB12](#)

Pathways:

[Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development](#)

Application Details

Application Notes:

We expect the protein to work for functional studies. As the protein has not been tested for

Application Details

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
