

Datasheet for ABIN7556521  
**SETD4 Protein (AA 1-439) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SETD4
Protein Characteristics:	AA 1-439
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SETD4 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Setd4 Protein expressed in mammalian cells.
Sequence:	<p>MQRRRGRTER ARKRRRRSSG SRAVNESYRS EFIELRKWLK ERKFEDTDLV PASFPGTGRG LMSKASLQEG QVMISLPESC LLTTDTVIRS SLGPYIKKWK PPVSPLLALC TFLVSEKHAG CRSLWKSYLE ILPKSYTCPV CLEPEVDLL PSPLKAKAEE QRARVQDLFT SARGFFSTLQ PLFAEPVDSV FSYRAFLWAW CTVNTRAVYL RSRRQECLSA EPDTCALAPF LDLLNHSPHV QVKAAFNEKT RCYEIRTASR CRKHQEVFIC YGPHDNQRLLE YGPFVSVRN PHACVPVSAD MLVKFLPAAD KQLHRKITIL KDHGFTGNLT FGWDGPSWRL LTALKLLCLE AERFTSWKKV LLGEVISDTN EKTSLGVAQK ICSDVIEETH AVLKRVSDMK EGTVSLRSQSL SLVEALRMEE LRILQASAEI LSGLLAPFS</p> <p><b>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.</b></p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

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### 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.

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### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

SETD4

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### Alternative Name:

Setd4 ([SETD4 Products](#))

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### Background:

SET domain-containing protein 4 (EC 2.1.1.-) (EC 2.1.1.364),FUNCTION: Histone-lysine N-methyltransferase that acts as a regulator of cell proliferation, cell differentiation and inflammatory response (PubMed:31376731, PubMed:31794893, PubMed:33506343). Regulates the inflammatory response by mediating mono- and dimethylation of 'Lys-4' of histone H3 (H3K4me1 and H3K4me2, respectively), leading to activate the transcription of pro-inflammatory cytokines IL6 and TNF-alpha (PubMed:31376731). Also involved in the regulation of stem cell quiescence by catalyzing the trimethylation of 'Lys-20' of histone H4 (H4K20me3), thereby promoting heterochromatin formation (By similarity). Involved in proliferation, migration, paracrine and myogenic differentiation of bone marrow mesenchymal stem cells (BMSCs) (PubMed:33506343). {ECO:0000250|UniProtKB:Q9NVD3, ECO:0000269|PubMed:31376731, ECO:0000269|PubMed:31794893, ECO:0000269|PubMed:33506343}.

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### Molecular Weight:

49.8 kDa

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## Target Details

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UniProt: [P58467](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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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