

Datasheet for ABIN7546079  
**SETD3 Protein (AA 1-594) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SETD3
Protein Characteristics:	AA 1-594
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SETD3 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SETD3 Protein expressed in mammalian cells.
Sequence:	<p>MGKKSrvKTQ KSGTGATATV SPKEILNLTs ELLQKcSSPA PGPgKEWEEY VQIRTLVEKI RKKQKGLSVT FDGKREDYFP DLMKWASENG ASVEGFEMVN FKEEGFGLRA TRDIKAEELF LWVPRKLLMT VESAKNSVLG PLYSQDRILQ AMGNIALAFH LLCERASPNS FWQPPIQTLP SEYDTPLYFE EDEVRYLQST QAIHDVFSQY KNTARQYAYF YKVIQTHPHA NKLPLKDSFT YEDYRWAVSS VMTRQNIPT EDGSRVTAL IPLWDMCNHT NGLITTGYNL EDDRCECVAl QDFRAGEQIY IFYGTRSNAE FVIHSGFFFD NNSHDRVKIK LGVSKSDRLY AMKAEVLARA GIPTSSVFAL HFTEPPISAQ LLAFLRVFCM TEEELKEHLL GDSaidRIFT LGNSEFPVSW DNEVKLWTFLEDRASLLLKT YKTTIEEDKS VLKNHDLsVR AKMAIKLRLG EKEILEKAVK SAAVNREYYR QQMEEKAPLP KYEESNLGLL ESSVGDSRLP LVLRNLEEEA GVQDALNIRE AISKAKATEN GLVNGENSIP NGTRSENEsL NQESKRAVED AKGSSSDsTA GVKE <b>Sequence</b> <b>without tag. The proposed Purification-Tag is based on experiences with the expression</b> <b>system, a different complexity of the protein could make another tag necessary. In case you</b></p>

## Product Details

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### have a special request, please contact us.

**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.

**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

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**Target:** SETD3

**Alternative Name:** SETD3 ([SETD3 Products](#))

**Background:** Actin-histidine N-methyltransferase (EC 2.1.1.85) (Protein-L-histidine N-tele-methyltransferase) (SET domain-containing protein 3) (hSETD3),FUNCTION: Protein-histidine N-methyltransferase that specifically mediates 3-methylhistidine (tele-methylhistidine) methylation of actin at 'His-73' (PubMed:30526847, PubMed:30626964, PubMed:30785395, PubMed:31388018, PubMed:31993215). Histidine methylation of actin is required for smooth muscle contraction of the laboring uterus during delivery (PubMed:30626964). Does not have protein-lysine N-methyltransferase activity and probably only catalyzes histidine methylation of actin (PubMed:30626964, PubMed:30785395, PubMed:31388018).  
{ECO:0000269|PubMed:30526847, ECO:0000269|PubMed:30626964,  
ECO:0000269|PubMed:30785395, ECO:0000269|PubMed:31388018,

## Target Details

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ECO:0000269|PubMed:31993215}.

Molecular Weight: 67.3 kDa

UniProt: [Q86TU7](#)

Pathways: [Regulation of Muscle Cell Differentiation](#)

## 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