

Datasheet for ABIN7554369
SETD8 Protein (AA 1-393) (His tag)



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Overview

Quantity:	1 mg
Target:	SETD8
Protein Characteristics:	AA 1-393
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SETD8 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant KMT5A Protein expressed in mammalian cells.
Sequence:	MGEGGAAAAL VAAAAAAAAA AAVVAGQRR RRLGRRARCH GPGRAAGGKM SKPCAVEAAA AAVAATAPGP EMVERRGPR PRTDGENVFT GQSKIYSYMS PNKCSGMRFP LQEENSVTHH EVKCGKPLA GIYRKREEKR NAGNAVRSAM KSEEQKIKDA RKGPLVFPN QKSEAAEPPK TPSSCDSTN AAIKQALKK PIKKGQAPRK KAQKTQQR KLTFYVRR SSRKSKAELQ SEERKRIDEL IESGKEEGMK IDLIDGKGRG VIATKQFSRG DFVVEYHGDL IEITDAKKRE ALYAQDPSTG CYMYFQYLS KTYCVDATRE TNRLGRLINH SKCGNCQTKL HDIDGVPHLI LIASRDIAAG EELLYDYGDR SKASIEAHPW LKH 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.
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

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:

SETD8

Alternative Name:

KMT5A ([SETD8 Products](#))

Background:

N-lysine methyltransferase KMT5A (EC 2.1.1.-) (H4-K20-HMTase KMT5A) (Histone-lysine N-methyltransferase KMT5A) (EC 2.1.1.361) (Lysine N-methyltransferase 5A) (Lysine-specific methylase 5A) (PR/SET domain-containing protein 07) (PR-Set7) (PR/SET07) (SET domain-containing protein 8),FUNCTION: Protein-lysine N-methyltransferase that monomethylates both histones and non-histone proteins (PubMed:12086618, PubMed:12121615, PubMed:15964846, PubMed:17707234, PubMed:27338793). Specifically monomethylates 'Lys-20' of histone H4 (H4K20me1) (PubMed:12086618, PubMed:12121615, PubMed:15964846, PubMed:27338793, PubMed:15200950, PubMed:15933069, PubMed:15933070, PubMed:16517599). H4K20me1 is enriched during mitosis and represents a specific tag for epigenetic transcriptional repression (PubMed:12086618, PubMed:12121615, PubMed:15964846, PubMed:15200950, PubMed:15933069, PubMed:15933070, PubMed:16517599). Mainly functions in euchromatin regions, thereby playing a central role in the silencing of euchromatic genes (PubMed:12086618, PubMed:12121615, PubMed:15964846, PubMed:15200950,

Target Details

PubMed:15933069, PubMed:15933070, PubMed:16517599). Required for cell proliferation, probably by contributing to the maintenance of proper higher-order structure of DNA during mitosis (PubMed:12086618, PubMed:12121615, PubMed:15964846, PubMed:15200950, PubMed:15933069, PubMed:15933070, PubMed:16517599). Involved in chromosome condensation and proper cytokinesis (PubMed:12086618, PubMed:12121615, PubMed:15964846, PubMed:15200950, PubMed:15933069, PubMed:15933070, PubMed:16517599). Nucleosomes are preferred as substrate compared to free histones (PubMed:12086618, PubMed:12121615, PubMed:15964846, PubMed:15200950, PubMed:15933069, PubMed:15933070, PubMed:16517599). Mediates monomethylation of p53/TP53 at 'Lys-382', leading to repress p53/TP53-target genes (PubMed:17707234). Plays a negative role in TGF-beta response regulation and a positive role in cell migration (PubMed:23478445). {ECO:0000269|PubMed:12086618, ECO:0000269|PubMed:12121615, ECO:0000269|PubMed:15200950, ECO:0000269|PubMed:15933069, ECO:0000269|PubMed:15933070, ECO:0000269|PubMed:15964846, ECO:0000269|PubMed:16517599, ECO:0000269|PubMed:17707234, ECO:0000269|PubMed:23478445, ECO:0000269|PubMed:27338793}.

Molecular Weight: 42.9 kDa

UniProt: [Q9NQR1](#)

Application Details

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

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