

Datasheet for ABIN7564766
SETD7 Protein (AA 1-366) (His tag)



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Overview

Quantity:	1 mg
Target:	SETD7
Protein Characteristics:	AA 1-366
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SETD7 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Setd7 Protein expressed in mammalian cells.
Sequence:	MDSDDDEVVEE AVEGHLDDDG LPHGFCTVTY SSTDRFEGNF VHGEKNGRGK FFFFDGSTLE GYYVDDALQG QGVYTYEDGG VLQGTYYDGE LNGPAQEYDS DGRLIFKGQY KDNNRHGVCW IHYPDGGSLV GEVNEDGEMT GEKIAYVYPD QRTALYGKFI DGEMLEGKLA TLMATEEGRP HFEVTSGSSV YHFDKSTSSC ISSDALLPDP YESERVYVAD SLISSAGEGL FSKVAVGPNT VMSFYNGVRI THQEVDSDRW ALNGNTLSLD EETVIDVPEP YNHVSKYCAS LGHKANHSFT PNCVYDLFVH PRFGPIKCIR TLRAVEAESEE LTVAYGYDHS PPGKSGPEAP EWYQVELKAF QATQQK 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.
Characteristics:	Key Benefits:

Product Details

- 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)
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Grade:	custom-made
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Target Details

Target:	SETD7
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Alternative Name:	Setd7 (SETD7 Products)
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Background:	<p>Histone-lysine N-methyltransferase SETD7 (EC 2.1.1.364) (Histone H3-K4 methyltransferase SETD7) (H3-K4-HMTase SETD7) (SET domain-containing protein 7) (SET7/9),FUNCTION: Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3 (By similarity). H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation (By similarity). Plays a central role in the transcriptional activation of genes such as collagenase or insulin (PubMed:12711597). Recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription (By similarity). Has also methyltransferase activity toward non-histone proteins such as CGAS, p53/TP53, TAF10, and possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins (PubMed:35210392). Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II (By similarity). Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation (By similarity). Monomethylates 'Lys-491' of CGAS, promoting interaction between SGF29 and CGAS (PubMed:35210392).</p> <p>{ECO:0000250 UniProtKB:Q8WTS6, ECO:0000269 PubMed:12711597,</p>
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Target Details

ECO:0000269|PubMed:35210392}.

Molecular Weight: 40.5 kDa

UniProt: [Q8VHL1](#)

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