

Datasheet for ABIN7555673
SUV39H2 Protein (AA 1-410) (His tag)



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Overview

Quantity:	1 mg
Target:	SUV39H2
Protein Characteristics:	AA 1-410
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SUV39H2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SUV39H2 Protein expressed in mammalian cells.
Sequence:	MAAVGAEARG AWCVPCLVSL DTLQELCRKE KLTCKSIGIT KRNLNNEYVE YLCDYKVVKD MEYYLVKWKG WPDSTNTWEP LQNLKCPLLL QQFSNDKHNY LSQVKKGKAI TPKDNNKTLK PAIAEYIVKK AKQRIALQRW QDELNRRKNH KGMIFVENTV DLEGPPSDFY YINEYKPAPG ISLVNEATFG CSCTDCFFQK CCPAEAGVLL AYNKNQQIKI PPGTPIYECN SRCQCGPDCP NRIVQKGTQY SLCIFRTSNG RGWGVKTLVK IKRMSFVMEY VGEVITSEEA ERRGQFYDNK GITYLFDLDY ESDEFTVDAA RYGNVSHFVN HSCDPNLQVF NVFIDNLDTR LPRIALFSTR TINAGEELTF DYQMKGSGDI SSDSIDHSPA KKRVRTVCKC GAVTCRGYLN 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:

SUV39H2

Alternative Name:

SUV39H2 ([SUV39H2 Products](#))

Background:

Histone-lysine N-methyltransferase SUV39H2 (EC 2.1.1.355) (Histone H3-K9 methyltransferase 2) (H3-K9-HMTase 2) (Lysine N-methyltransferase 1B) (Suppressor of variegation 3-9 homolog 2) (Su(var)3-9 homolog 2),FUNCTION: Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3 using monomethylated H3 'Lys-9' as substrate. H3 'Lys-9' trimethylation represents a specific tag for epigenetic transcriptional repression by recruiting HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Mainly functions in heterochromatin regions, thereby playing a central role in the establishment of constitutive heterochromatin at pericentric and telomere regions. H3 'Lys-9' trimethylation is also required to direct DNA methylation at pericentric repeats. SUV39H1 is targeted to histone H3 via its interaction with RB1 and is involved in many processes, such as cell cycle regulation, transcriptional repression and regulation of telomere length. May participate in regulation of higher-order chromatin organization during spermatogenesis. Recruited by the large PER complex to the E-box elements of the circadian target genes such as PER2 itself or PER1, contributes to the

Target Details

conversion of local chromatin to a heterochromatin-like repressive state through H3 'Lys-9' trimethylation. {ECO:0000269|PubMed:14765126}.

Molecular Weight: 46.7 kDa

UniProt: [Q9H511](#)

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