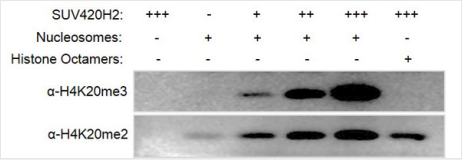
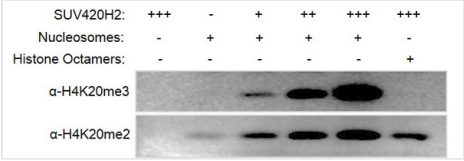
SUV420H2 Recombinant Protein

PRODUCT OVERVIEW

Product Name	SUV420H2, Recombinant Protein
Full Product Name	Recombinant SUV420H2 protein
Product Gene Name	SUV420H2 recombinant protein
Product Synonym Names	KMT5C
Host	E Coli
Form/Format	Recombinant SUV420H2 protein is supplied at a concentration of 0.3ug/ul in 25mM Tris pH8.0, 300mM NaCl, 5% glycerol.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice
Molecular Weight	52,113 Da
OMIM	613198
3D Structure	ModBase 3D Structure for Q86Y97
Protein Species	Human
Tag	GST-Tag
Notes	Recombinant SUV420H2 is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. HMT Assay Conditions: 2ug Recombinant Nucleosomes (H3.1) were incubated with 0ug (-), 0.1ug (+), 0.2ug (++), 0.4ug (+++) SUV420H2 protein, in 30ul reaction containing 50mM Tris-HCl, pH 8.6, 0.02% Triton X-100, 2mM MgCl2, 1mM TCEP, 50uM SAM for 3 hr at RT. Products run on a 12.5% SDS-PAGE gel were detected with anti-H4K20me2 or anti-H4K20me3. SUV420H2 only was used as negative control.
Dry Ice Shipment	Extra charge fee may add to your shipping cost as dry ice is required to ship this product.
Product Categories/Family for SUV420H2 recombinant protein	Recombinant Proteins; Histone Methyltransferase (HMT)
Related Product Information for SUV420H2 recombinant protein	Short Description: Recombinant SUV420H2 protein was expressed in E Coli as full-length protein (accession number NP_116090.2) and contains an N-terminal GST-Tag with an observed molecular weight of 78.4 kDa. It is suitable for use in histone methyltransferase (HMT) assays. Background: SUV420H2 (Suppressor Of Variegation 4-20 Homolog 2, also known as KMT5C) is a histone methyltransferase that specifically trimethylates nucleosomal histone H4 on lysine 20 (H4K20). H4K20me3 is a histone marker that represents epigenetic transcriptional repression. SUV420H2 mainly functions in pericentric heterochromatin regions, thereby playing a central role in the establishment of constitutive heterochromatin in these regions. SUV420H2 is targeted to histone H3 via its interaction with RB1 family proteins.
Other Notes	Small volumes of SUV420H2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SUV420H2 purchase	MBS389075 is a recombinant protein targeting SUV420H2. Also known as Recombinant SUV420H2 protein. Host: E Coli.



SDS-Page of SUV420H2 recombinant protein
Recombinant SUV420H2 protein 10% SDS-PAGE Coomassie staining MW: 78.4 kDa Purity: > 60%



SDS-Page of SUV420H2 recombinant protein
Recombinant SUV420H2 activity assay Recombinant Nucleosomes (H3.1) in various amounts were incubated with SUV420H2 protein. Reaction products were run on SDS-PAGE gel and detected with anti-H4K20me2 or anti-H4K20me3. The activity of SUV420H2 with nucleosomes as substrate is better than with histone octamers as substrate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SUV420H2. It may not necessarily be applicable to this product.

NCBI GI #	31543169
NCBI GeneID	84787
NCBI Accession #	NP_116090.2
UniProt Primary Accession #	Q86Y97
UniProt Secondary Accession #	Q8WZ10; Q9BRZ6
UniProt Related Accession #	Q86Y97
GenBank Nucleotide #	NM_032701.3
NCBI Official Full Name	histone-lysine N-methyltransferase SUV420H2
NCBI Official Synonym Full Names	suppressor of variegation 4-20 homolog 2 (Drosophila)
NCBI Official Symbol	SUV420H2
NCBI Official Synonym Symbols	KMT5C
UniProt Protein Name	Histone-lysine N-methyltransferase SUV420H2
UniProt Synonym Protein Names	Lysine N-methyltransferase 5C; Suppressor of variegation 4-20 homolog 2
UniProt Gene Name	SUV420H2
UniProt Synonym Gene Names	KMT5C
UniProt Entry Name	SV422_HUMAN
NCBI Protein Information	histone-lysine N-methyltransferase SUV420H2; suv4-20h2; su(var)4-20 homolog 2; lysine N-methyltransferase 5C
UniProt Comments for SUV420H2	SUV420H2: Histone methyltransferase that specifically trimethylates 'Lys-20' of histone H4. H4 'Lys-20' trimethylation represents a specific tag for epigenetic transcriptional repression. Mainly functions in pericentric heterochromatin regions, thereby playing a central role in the establishment of constitutive heterochromatin in these regions. SUV420H1 is targeted to histone H3 via its interaction with RB1 family proteins (RB1, RBL1 and RBL2). Belongs to the histone-lysine methyltransferase family. Suvar4-20 subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Methyltransferase; EC 2.1.1.43; Amino Acid Metabolism - lysine degradation; Methyltransferase, protein lysine Chromosomal Location of Human Ortholog: 19q13.42 Cellular Component: nucleoplasm; centric heterochromatin; nuclear heterochromatin; condensed nuclear chromosome, pericentric region Molecular Function: protein binding; histone lysine N-methyltransferase activity (H4-K20 specific) Biological Process: regulation of transcription, DNA-dependent; transcription, DNA-dependent

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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