

SUV420H2 recombinant protein

Recombinant SUV420H2 protein

CATALOG #
AAA60105

HOST
E Coli

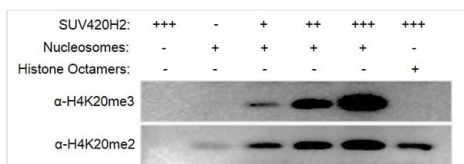
PRODUCT SYNONYMS

SUV420H2; Recombinant SUV420H2 protein; KMT5C; SUV420H2 recombinant protein

PRODUCT SPECIFICATIONS

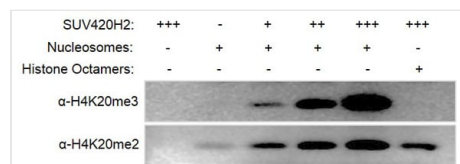
Host	E Coli
Form/Format	Recombinant SUV420H2 protein is supplied at a concentration of 0.3ug/ul in 25mM Tris pH8.0, 300mM NaCl, 5% glycerol.
Protein Species	Human
Tag	GST-Tag
Notes	Recombinant SUV420H2 is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. 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 Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
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

IMAGES



SDS-PAGE

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.



SDS-PAGE

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

ADDITIONAL INFORMATION

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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31543169
NCBI GeneID	84787
NCBI Accession #	NP_116090.2
NCBI GenBank Nucleotide #	NM_032701.3
UniProt Accession #	Q86Y97; Q8WZ10; Q9BRZ6
Molecular Weight	52,113 Da
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
NCBI Protein Information	histone-lysine N-methyltransferase SUV420H2; suv4-20h2; su(var)4-20 homolog 2; lysine N-methyltransferase 5C
UniProt Protein Name	Histone-lysine N-methyltransferase SUV420H2
UniProt Gene Name	SUV420H2
UniProt Synonym Gene Names	KMT5C
UniProt Entry Name	SV422_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/suv420h2-recombinant-protein-e-coli/60105>