

SUV420H1 recombinant protein

Recombinant SUV420H1 (2-387) protein

CATALOG # AAA60110	HOST E Coli
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PRODUCT SYNONYMS

SUV420H1; Recombinant SUV420H1 (2-387) protein; SUV420H1 recombinant protein

PRODUCT SPECIFICATIONS

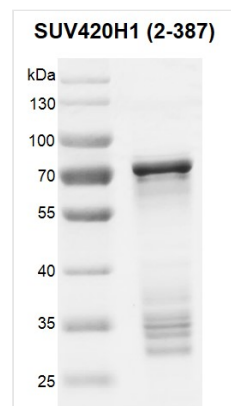
Host	E Coli
Form/Format	Recombinant SUV420H1 (2-387) protein is supplied at a concentration of 1.2ug/ul in 25mM Tris pH8.0, 300mM NaCl, 5% glycerol.
Protein Species	Human
Tag	GST-Tag
Notes	Recombinant SUV420H1 (2-387) is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. HMT Assay Conditions: 2ug Recombinant Nucleosomes were incubated with different concentrations of SUV420H1 (2- 387) protein in 30ul reaction system containing 50mM Tris-HCl, pH 8.6, 0.02% Triton X-100, 2mM MgCl ₂ , 1mM TCEP, and 50uM SAM for 3 hours at room temperature. Western Blot was used to detect the generation of reaction products.
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



WB (Western Blot)

Recombinant SUV420H1 (2-387) activity assay 2 ug Recombinant Nucleosomes (H3.1) were incubated with 0 ug (-), 0.2 ug (+), 0.4 ug (++), 0.8 ug (+++) SUV420H1 (2-387) protein, respectively, in 30 ul reaction system containing 50 mM Tris-HCl, pH 8.6, 0.02% Triton X-100, 2 mM MgCl₂, 1 mM TCEP, 50 uM SAM for 3 hr at room temperature. 6 ul reaction products were loaded and run on a 12.5% SDS-PAGE gel. Western Blot was used to detect the generation of reaction products (H4K20me3 antibody). SUV420H1 (2-387) only was used as negative control. The Western blot result shows that nucleosomes are much better than histone octamers as the substrate of SUV420H1 (2-387).



SDS-PAGE

Recombinant SUV420H1 (2-387) protein gel. 10% SDS-PAGE gel stained with Coomassie blue. MW: 71.1 kDa Purity: > 75%

ADDITIONAL INFORMATION

Related Product Information for SUV420H1 recombinant protein	Short Description: Recombinant SUV420H1 (2-387) protein corresponding to amino acids 2-387 of SUV420H1 protein (accession number NP_060105.3) was expressed in E Coli and contains an N-terminal GST-Tag with a molecular weight of 71.1 kDa. Recombinant SUV420H1 (2-387) protein contains the SET domain of SUV420H1 that is responsible for methyltransferase activity. It is suitable for use in histone methyltransferase assays as well as in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: SUV420H1 (Suppressor Of Variegation 4-20 Homolog 1, also known as KMT5B) is a histone methyltransferase that specifically trimethylates nucleosomal histone H4 on lysine 20 (H4K20). H4K20me3 is a histone marker that represents epigenetic transcriptional repression. SUV420H1 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. It plays a role in myogenesis by regulating the expression of target genes, such as EID3.
Product Categories/Family for SUV420H1 recombinant protein	Recombinant Proteins; Histone Methyltransferase (HMT)

NCBI AND UNIPROT INFORMATION

Molecular Weight	Molecular weight of 71.1 kDa
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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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/suv420h1-recombinant-protein-e-coli/60110>