

PRMT6 recombinant protein

Recombinant PRMT6 protein

CATALOG #
AAA59658

HOST
Baculovirus

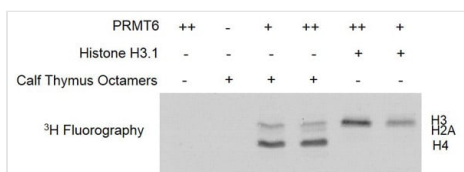
PRODUCT SYNONYMS

PRMT6; Recombinant PRMT6 protein; HRMT1L6; PRMT6 recombinant protein

PRODUCT SPECIFICATIONS

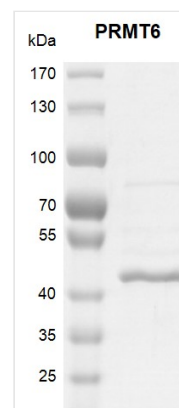
Host	Baculovirus
Purity/Purification	This recombinant protein is >= 85% pure by SDS-PAGE.
Form/Format	Full length recombinant PRMT6 protein was expressed in Sf9 cells and is supplied in 25mM Hepes pH7.5, 300mM NaCl, 5% glycerol, 0.04% Triton X-100, 0.2mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant PRMT6 is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. HMT Assay Conditions: 60 ng/ul Calf Thymus Octamers were incubated with 30 ng/ul recombinant PRMT6 protein in reaction buffer including 50mM Tris-HCl, pH 8.6, 0.02% Triton X-100, 2mM MgCl ₂ , 1mM TCEP, 9 nCi/ul 3H-SAM for 3 hours at room temperature. Activity was detected by fluorography.
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



Application Data

PRMT6 activity assay. 30 ng/ul Recombinant Histone H3.1 or 60 ng/ul Calf Thymus Octamer were incubated with 15 ng/ul PRMT6 (+) and 30 ng/ul PRMT6(++), respectively, in reaction buffer for 3 hours at room temperature. Activity was detected by fluorography.



SDS-PAGE

Recombinant PRMT6 protein gel. PRMT6 protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for PRMT6 recombinant protein	Short Description: Recombinant PRMT6 (accession number NP_060607.2) was expressed in Sf9 cells and contains an N-terminal DYKDDDDK tag with an observed molecular weight of 43.7 kDa. PRMT6 (Protein Arginine Methyltransferase 6, HRMT1L6, ANM6) is a type I arginine methyltransferase. Arginine methylation is a common post-translational modification of histones and other cellular proteins. PRMT6 preferentially methylates arginine residues present in GAR (glycine and arginine-rich) domains. PRMT6 asymmetrically dimethylates histone H3 at Arg2, which is mutually exclusive to methylation at lysine 4 (associated with transcriptional activation), and thus PRMT6 serves as a transcriptional repressor in this context. It can also symmetrically dimethylate H2A and H4 at Arg3 and serves as a coactivator of transcription in concert with nuclear receptors. Recombinant PRMT6 can be used to study enzyme kinetics and perform inhibitor screening assays. Background: PRMT6 (Protein Arginine Methyltransferase 6, HRMT1L6, ANM6) is a type I arginine methyltransferase. Arginine methylation is a common post-translational modification of histones and other cellular proteins. PRMT6 preferentially methylates arginine residues present in GAR (glycine and arginine-rich) domains. PRMT6 asymmetrically dimethylates histone H3 at Arg2, which is mutually exclusive to methylation at lysine 4 (associated with transcriptional activation), and thus PRMT6 serves as a transcriptional repressor in this context. It can also symmetrically dimethylate H2A and H4 at Arg3 and serves as a coactivator of transcription in concert with nuclear receptors.
Product Categories/Family for PRMT6 recombinant protein	Recombinant Proteins; Histone Methyltransferase (HMT); Transcription

NCBI AND UNIPROT INFORMATION

NCBI GI #	227908867
NCBI GeneID	55170
NCBI Accession #	NP_060607.2
NCBI GenBank Nucleotide #	NM_018137.2
UniProt Accession #	Q96LA8; Q5T5Y5; Q6DKI4; Q9NVR8; A3KME1; B4DID8
Molecular Weight	32,509 Da
NCBI Official Full Name	protein arginine N-methyltransferase 6
NCBI Official Synonym Full Names	protein arginine methyltransferase 6
NCBI Official Symbol	PRMT6
NCBI Official Synonym Symbols	HRMT1L6
NCBI Protein Information	protein arginine N-methyltransferase 6; HMT1 hnRNP methyltransferase-like 6; histone-arginine N-methyltransferase PRMT6; heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 6
UniProt Protein Name	Protein arginine N-methyltransferase 6
UniProt Gene Name	PRMT6
UniProt Synonym Gene Names	HRMT1L6
UniProt Entry Name	ANM6_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.