

PRMT1 recombinant protein

Recombinant PRMT1 protein

CATALOG #
AAA59664

HOST
Baculovirus

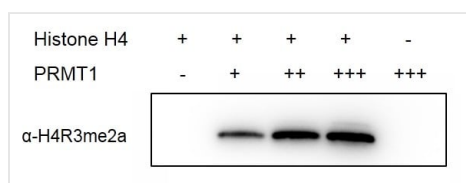
PRODUCT SYNONYMS

PRMT1; Recombinant PRMT1 protein; ANM1; HCP1; IR1B4; HRMT1L2; PRMT1 recombinant protein

PRODUCT SPECIFICATIONS

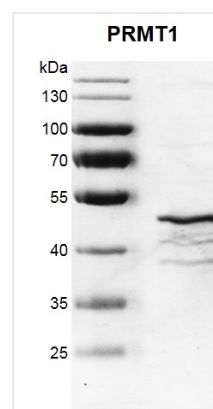
Host	Baculovirus
Form/Format	Recombinant PRMT1 protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant PRMT1 is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. HMT Assay Conditions: 0.5ug Histone H4 was incubated with 0ug (-), 0.05ug (+), 0.1ug (++), 0.2ug (+++) PRMT1 in 30ul reaction system containing 50mM Tris-HCl pH 8.6, 2mM MgCl ₂ , 1mM TCEP, 0.02% Triton X-100 and 25uM SAM for 2 hours at room temperature. 7ul sample of each reaction was run on a 13% SDS-PAGE gel, and products were detected by Western blot. H4R3me2a (asymmetric) antibody was used to recognize the dimethyl-Arg3 (asymmetric) of histone H4.
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)

Western blot for PRMT1 methyltransferase activity 0.5 ug Histone H4 was incubated with 0 ug (-), 0.05 ug (+), 0.1 ug (++) , 0.2 ug (+++) PRMT1 system for 2 hr at room temperature. Products were detected by Western blot using H4R3me2a (asymmetric) antibody.



SDS-PAGE

Recombinant PRMT1 protein gel. PRMT1 protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for PRMT1 recombinant protein	Short Description: Recombinant PRMT1 (accession number NP_938074.2) was expressed in Sf9 cells and contains an N-terminal DYKDDDDK tag with an observed molecular weight of 42 kDa. PRMT1 (protein arginine N-methyltransferase 1) is a member of the protein arginine N-methyltransferase (PRMT) family capable of monomethylating and asymmetrically dimethylating arginine residue in proteins such as ESR1, histone H2, H3 and H4, PIAS1, HNRNPA1, HNRNPD, NFATC2IP, SUPT5H, TAF15 and EWS. PRMT1 specifically methylates arginine 3 on histone H4 (H4R3), a specific tag for epigenetic transcriptional activation. Together with dimethylated PIAS1, PRMT1 represses STAT1 transcriptional activity in the late phase of interferon gamma (IFN-gamma) signaling. PRMT1 may be involved in the regulation of TAF15 transcriptional activity and may act as an activator of estrogen receptor (ER)-mediated transactivation. It may also play a key role in neurite outgrowth and act as a negative regulator of megakaryocytic differentiation by modulating p38 MAPK pathways. Recombinant PRMT1 can be used to study enzyme kinetics and perform inhibitor screening assays. Background: PRMT1 (protein arginine N-methyltransferase 1) is a member of the protein arginine N-methyltransferase (PRMT) family capable of monomethylating and asymmetrically dimethylating arginine residue in proteins such as ESR1, histone H2, H3 and H4, PIAS1, HNRNPA1, HNRNPD, NFATC2IP, SUPT5H, TAF15 and EWS. PRMT1 specifically methylates arginine 3 on histone H4 (H4R3), a specific tag for epigenetic transcriptional activation. Together with dimethylated PIAS1, PRMT1 represses STAT1 transcriptional activity in the late phase of interferon gamma (IFN-gamma) signaling. PRMT1 may be involved in the regulation of TAF15 transcriptional activity and may act as an activator of estrogen receptor (ER)-mediated transactivation. It may also play a key role in neurite outgrowth and act as a negative regulator of megakaryocytic differentiation by modulating p38 MAPK pathways.
Product Categories/Family for PRMT1 recombinant protein	Recombinant Proteins; Histone Methyltransferase (HMT); Transcription

NCBI AND UNIPROT INFORMATION

Molecular Weight	Molecular weight of PRMT1 is 42kDa
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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.

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Online datasheet: <https://www.aaabiotech.com/prmt1-recombinant-protein-baculovirus/59664>