

Datasheet for ABIN2669672

**PRMT1 Protein (DYKDDDDK Tag)****2** Images[Go to Product page](#)

## Overview

Quantity:	20 µg
Target:	PRMT1
Origin:	Human
Source:	Baculovirus
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRMT1 protein is labelled with DYKDDDDK Tag.
Application:	Enzyme Activity Assay (EAA), Screening Assay (ScA)

## Product Details

Characteristics:	Recombinant PRMT1 (accession number NP_938074.2) was expressed in Sf9 cells and contains an N-terminal FLAG tag with an observed molecular weight of 42 kDa.
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## Target Details

Target:	PRMT1
Alternative Name:	PRMT1 ( <a href="#">PRMT1 Products</a> )
Background:	<p>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.</p> <p>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</p>

## Target Details

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.

Molecular Weight: 42 kDa

## Application Details

Application Notes: Recombinant PRMT1 is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Specific Activity: H3R8 and H4R3 methylase. HMT Assay Conditions: 50 mM TrisCl, pH 8.6, 0.02 % Triton X-100, 2 mM MgCl<sub>2</sub>, 1 mM TCEP, 100 μM SAM, 30 ng/μl Recombinant Octamers, 30 ng/μl Recombinant PRMT1 protein at 2 hours at room temperature. Activity was detected by fluorography.

Restrictions: For Research Use only

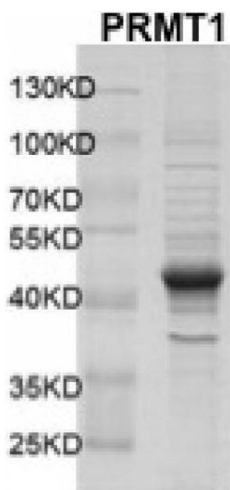
## Handling

Handling Advice: Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

Storage: -80 °C

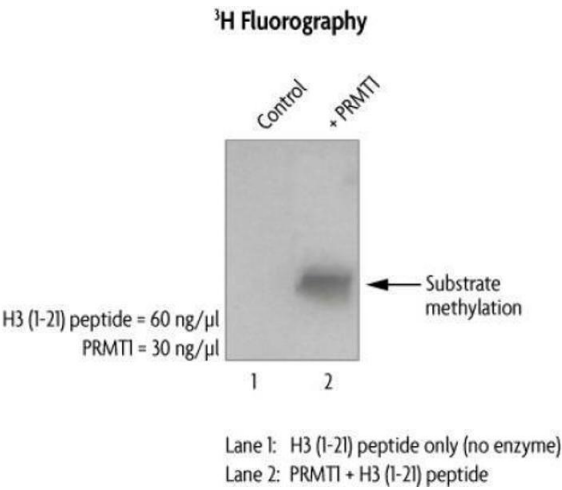
Storage Comment: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation.

## Images



### Western Blotting

**Image 1.** Recombinant PRMT1 protein gel. PRMT1 protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue.



Western Blotting

**Image 2.** PRMT1 activity assay. HMT assay measuring the activity of Recombinant PRMT1. Activity was detected by fluorography.