

Datasheet for ABIN2669658
PRMT5 Protein (DYKDDDDK Tag)



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2 Images

Overview

Quantity:	20 µg
Target:	PRMT5
Origin:	Human
Source:	Baculovirus
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRMT5 protein is labelled with DYKDDDDK Tag.
Application:	Enzyme Activity Assay (EAA), Screening Assay (ScA)

Product Details

Characteristics: Recombinant PRMT5 (accession number NP_006100.2) was expressed in Sf9 cells and contains an N-terminal FLAG tag with an observed molecular weight of 74.2 kDa.

Target Details

Target:	PRMT5
Alternative Name:	PRMT5 (PRMT5 Products)
Background:	PRMT5 (Protein Arginine Methyltransferase 5, also known as JBP1, Janus Binding Protein 1) is a type II arginine methyltransferase, a protein that transfers methyl groups to the arginine residues of substrate proteins. Arginine methylation is a common post-translational modification of histones and other cellular proteins. PRMT5 symmetrically dimethylates histone H2A Arg3, H3 Arg8 and H4 Arg3. It also methylates Piwi proteins which regulate small non-coding RNAs and snRNPs, regulating snRNP core particle assembly. PRMT5 functions as a co-repressor of transcription and is recruited by a number of DNA binding proteins and

Target Details

transcriptional repressor complexes. It is present both in the nucleus and the cytoplasm. It also interacts with COPR5, JAK2, PRDM1 and RPS10.

Molecular Weight: 74.2 kDa

Pathways: [Chromatin Binding](#), [Regulation of Muscle Cell Differentiation](#), [Ribonucleoprotein Complex Subunit Organization](#), [Skeletal Muscle Fiber Development](#)

Application Details

Application Notes: Recombinant PRMT5 is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Specific Activity: H3R8 and H4R3 methyltransferase. HMT Assay Conditions: 50 mM TrisCl, pH 8.6, 0.02 % Triton X-100, 2 mM MgCl₂, 1 mM TCEP, 60 ng/μl H3 (1-21) peptide, 20 ng/μl Recombinant PRMT5 protein at 2 hours at room temperature. Activity was detected by fluorography.

Restrictions: For Research Use only

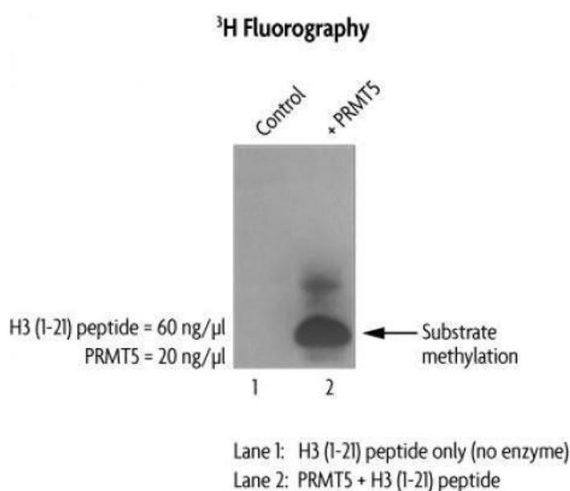
Handling

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

Storage: -80 °C

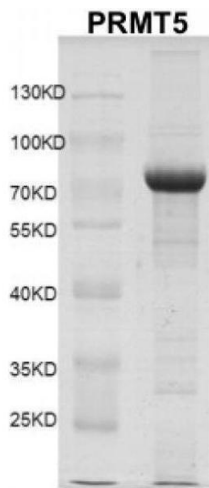
Storage Comment: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation.

Images



Western Blotting

Image 1. PRMT5 activity assay. HMT assay measuring the activity of Recombinant PRMT5. Activity was detected by fluorography.



Western Blotting

Image 2. Recombinant PRMT5 protein gel. PRMT5 protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue.