Datasheet for ABIN2669660

PRMT7 Protein (DYKDDDDK Tag)

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1 Image

Overview

Quantity:	20 µg
Target:	PRMT7
Origin:	Human
Source:	Baculovirus
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRMT7 protein is labelled with DYKDDDDK Tag.
Application:	Enzyme Activity Assay (EAA), Screening Assay (ScA)

Product Details

Characteristics:	Recombinant PRMT7 (accession number NP_061896.1) was expressed in Sf9 cells and contains an N-terminal FLAG tag with an observed molecular weight of 80.1 kDa.

Target Details

Target:	PRMT7
Alternative Name:	PRMT7 (PRMT7 Products)
Background:	PRMT7 (Protein Arginine Methyltransferase 7) is a type I arginine methyltransferase. Arginine methylation is a common post-translational modification of histones and other cellular proteins. PRMT7 specifically mediates the symmetrical dimethylation of histone H4 at Arg3 to form H4R3me2s. PRMT7 plays a role in gene imprinting by being recruited by CTCFL at the H19 imprinted control region (ICR) and methylating histone H4 to form H4R3me2s, possibly leading to recruitment of DNA methyltransferases at these sites. PRMT7 may also play a role in embryonic stem cell (ESC) pluripotency. PRMT7 is also able to mediate arginine methylation of

Target Details

	histone H2A and myelin basic protein (MBP) in vitro. However, the biological relevance of such results is unclear.
Molecular Weight:	80.1 kDa
Pathways:	Ribonucleoprotein Complex Subunit Organization

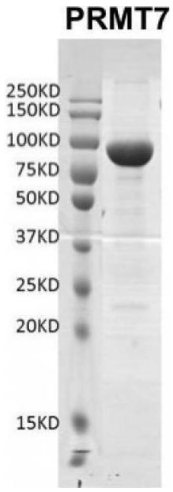
Application Details

Application Notes:	Recombinant PRMT7 is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Specific Activity: Specifically mediates the symmetrical dimethylation of arginine residues in the small nuclear ribonucleoproteins Sm D1 (SNRPD1) and Sm D3 (SNRPD3). Specifically mediates the symmetric dimethylation of histone H4 'Arg-3' to form H4R3me2s.
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 PRMT7 protein gel. PRMT7 protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue.