

## Product datasheet

# Recombinant Human PRMT1 protein (Tagged) ab216183

### Description

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<b>Product name</b>	Recombinant Human PRMT1 protein (Tagged)
<b>Purity</b>	> 90 % SDS-PAGE.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<a href="#">Q99873</a>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<pre>MASMTGGQQMGRGHHHHHHGNLYFQGGEEFAAAEAANCI MENFVATLANGM SLQPPLEEVSQGAESSEKPNEDMTSKDYFDSYAHFG IHEEMLKDEVK TLTYRNSMFHNRHLFKDKVVLVDVSGGTGILCMFAAKAGAR KVGIECSSI SDYAVKIVKANKLDHVVTIIGKGVVEEVELPVEKVDIIISEWM GYCLFYES MLNTVLYARDKWLAPDGLIFPDRATLYVTAIEDRQYKDYKI HWWENVYGF DMSCIKDVAIKEPLVDVDPKQLVTNACLIIKEVDIYTVKVE DLTFTSPFC LQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTHW KQTVFYMEDY LTVKTGEEIFGTIGMRPNNAKNNRDLDFDIDLFKGLCELS CSTDYRMR</pre>
<b>Predicted molecular weight</b>	46 kDa including tags
<b>Amino acids</b>	1 to 361
<b>Additional sequence information</b>	With a small T7-His-TEV cleavage site Tag (29 aa) fusion at its N-terminal.

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab216183** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** SDS-PAGE

**Form** Liquid

## Preparation and Storage

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**Stability and Storage** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -80°C.

pH: 8.00

Constituent: 0.32% Tris HCl

Contains NaCl, KCl, EDTA, sucrose and DTT.

## General Info

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**Function** Arginine methyltransferase that methylates (mono and asymmetric dimethylation) the guanidino nitrogens of arginyl residues present in proteins such as ESR1, histone H2, H3 and H4, PIAS1, HNRNPA1, HNRNPD, NFATC2IP, SUPT5H, TAF15 and EWS. Constitutes the main enzyme that mediates monomethylation and asymmetric dimethylation of histone H4 'Arg-4' (H4R3me1 and H4R3me2a, respectively), a specific tag for epigenetic transcriptional activation. Together with dimethylated PIAS1, represses STAT1 transcriptional activity, in the late phase of interferon gamma (IFN-gamma) signaling. May be involved in the regulation of TAF15 transcriptional activity, act as an activator of estrogen receptor (ER)-mediated transactivation, play a key role in neurite outgrowth and act as a negative regulator of megakaryocytic differentiation, by modulating p38 MAPK pathway.

**Tissue specificity** Widely expressed.

**Sequence similarities** Belongs to the protein arginine N-methyltransferase family.

**Cellular localization** Nucleus. Cytoplasm > cytosol.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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