

Product datasheet for TP505164

Prmt1 (BC002249) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Purified recombinant protein of Mouse protein arginine N-methyltransferase 1 (cDNA clone MGC:7572 IMAGE:3493263), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

Species: Mouse

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >MR205164 protein sequence
Red=Cloning site **Green**=Tags(s)

MEVSCGQAESSEKPN AEDMTSKDYFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRHLFKDKWLDVVGSG
TGILCMFAAKAGARKVIGIECSSISDYAVKIVKANKLDHVVTIIGKVEEVELPVEKVDIIISEWMGYCL
FYESMLNTVLHARDKWLPDGLIFPD RATLYVTAIEDRQYKDYKIHWWENVYGFDMSCIKDVAI KEPLVD
VWDPKQLVTNACL I KEVDIYTVKVEDLTFTSPFCLQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESP
YTHWKQTVFYMEDYLT VKTGEEIFGTIGMRPNAKNNRDLDF TIDLDFKGLCELS CSTDYRMR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK

Predicted MW: 39.6 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C after receiving vials.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Locus ID: 15469

UniProt ID: [Q9JIF0](#)

RefSeq Size: 1213



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Cytogenetics: 7 29.07 cM

RefSeq ORF: 1029

Synonyms: 6720434D09Rik; AW214366; Hrmt112; Mrmt1

Summary: 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, ILF3, HNRNPA1, HNRNPD, NFATC2IP, SUPT5H, TAF15, EWS, HABP4 and SERBP1 (PubMed:15327772, PubMed:19858291). 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 (By similarity). Methylates H4R3 in genes involved in glioblastomagenesis in a CHTOP- and/or TET1-dependent manner (By similarity). 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 (By similarity). Methylates RBM15, promoting ubiquitination and degradation of RBM15 (By similarity). Methylates CHTOP and this methylation is critical for its 5-hydroxymethylcytosine (5hmC)-binding activity (PubMed:19858291).[UniProtKB/Swiss-Prot Function]