

Product datasheet for TP505897

OriGene Technologies, Inc.

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Prmt6 (NM 178891) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Mouse protein arginine N-methyltransferase 6 (Prmt6), with

C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

Species: Mouse Expression Host: HEK293T

Expression cDNA Clone

or AA Sequence:

>MR205897 representing NM_178891 Red=Cloning site Green=Tags(s)

MSLSKKRKLESGDSGGAGAGGEGAEEENGGEQEAAPPRPRRTKSERDQLYYECYSDVSVHEEMIADQVRT EAYRLGILKNWAALRGKTVLDVGAGTGILSIFCAQAGARRVYAVEASAIWQQAREVVRLNGLEDRVHVLP GPVETVELPERVDAIVSEWMGYGLLHESMLSSVLHARTKWLKEGGLLLPASAELFVAPISDQMLEWRLGF WSQVKQHYGVDMSCMESFATRCLMGHSEIVVQDLSGEDVLARPQRFAQLELARAGLEQELEAGVGGRFR

C

SCYGSAPLHGFAVWFQVTFPGGDSEKPLVLSTSPFHPATHWKQALLYLNEPVPVEQDTDISGEITLLPSP

DNPRRLRILLRYKVGDHEEKTKDFAMED

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Tag: C-MYC/DDK
Predicted MW: 42.3 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.

RefSeq: NP 849222

Locus ID: 99890





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UniProt ID: Q6NZB1

RefSeq Size: 2475 Cytogenetics: 3 F3 RefSeq ORF: 1134

Synonyms: AW124876; BB233495; Hrmt1l6

Summary: Arginine methyltransferase that can catalyze the formation of both omega-N

monomethylarginine (MMA) and asymmetrical dimethylarginine (aDMA), with a strong preference for the formation of aDMA (PubMed:22904064, PubMed:26070566). Preferentially methylates arginyl residues present in a glycine and arginine-rich domain and displays preference for monomethylated substrates (By similarity). Specifically mediates the asymmetric dimethylation of histone H3 'Arg-2' to form H3R2me2a (By similarity). H3R2me2a represents a specific tag for epigenetic transcriptional repression and is mutually exclusive with methylation on histone H3 'Lys-4' (H3K4me2 and H3K4me3) (By similarity). Acts as a transcriptional repressor of various genes such as HOXA2, THBS1 and TP53 (PubMed:22904064). Repression of TP53 blocks cellular senescence (PubMed:22904064). Also methylates histone H2A and H4 'Arg-3' (H2AR3me and H4R3me, respectively). Acts as a regulator of DNA base excision during DNA repair by mediating the methylation of DNA polymerase beta (POLB), leading to the stimulation of its polymerase activity by enhancing

as a transcriptional coactivator of a number of steroid hormone receptors including ESR1, ESR2, PGR and NR3C1. Promotes fasting-induced transcriptional activation of the gluconeogenic program through methylation of the CRTC2 transcription coactivator

DNA binding and processivity. Methylates HMGA1. Regulates alternative splicing events. Acts

(PubMed:24570487). Methylates GPS2, protecting GPS2 from ubiquitination and degradation

(PubMed:26070566).[UniProtKB/Swiss-Prot Function]