

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 >MR205897 representing NM_178891 or AA Sequence: Red=Cloning site Green=Tags(s)

MSLSKKRKLESGDSGAGAGGEGAEEENGGEQEAAPPRPRRTKSERDQLYYECYSDVSVHEEMIADQVRT EAYRLGILKNWAALRGKTVLDVGAGTGILSIFCAQAGARRVYAVEASAIWQQAREVVRLNGLEDRVHVLP GPVETVELPERVDAIVSEWMGYGLLHESMLSSVLHARTKWLKEGGLLLPASAELFVAPISDQMLEWRLGF WSQVKQHYGVDMSCMESFATRCLMGHSEIVVQDLSGEDVLARPQRFAQLELARAGLEQELEAGVGGRFRC SCYGSAPLHGFAVWFQVTFPGGDSEKPLVLSTSPFHPATHWKQALLYLNEPVPVEQDTDISGEITLLPSP

DNPRRLRILLRYKVGDHEEKTKDFAMED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

 UniProt ID:
 Q6NZB1





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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 DNA binding and processivity. Methylates HMGA1. Regulates alternative splicing events. Acts 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 (PubMed:24570487). Methylates GPS2, protecting GPS2 from ubiquitination and degradation (PubMed:26070566).[UniProtKB/Swiss-Prot Function]