

**PRMT1 isoform2, 1-353 aa, mouse, His-MBP tagged, Recombinant, E.coli**

**Cat.NO.: TP03528**

3th Edition

**Synonyms:**Protein arginine N-methyltransferase 1, Mrmt1, Hrmt112, AW214366

**Description:**Protein arginine N-methyltransferase 1(PRMT1) is a type I methyltransferase that transfers a methyl group from S-adenosylmethionine to guanidino nitrogens of arginine residues to form monomethylarginine and asymmetric dimethylarginine. Functions of type I arginine methylation in proteins may include regulation of transcription, modulation of the affinity of nucleic acid-binding proteins, regulation of interferon signaling pathways, and targeting of nuclear proteins.

**Form:**Liquid. In 40 mM Tris-HCl buffer (pH 8.0) containing 2 mM DTT,100 mM NaCl, 4 mM MgCl<sub>2</sub>, 40% glycerol

**Molecular Weight:**84 kDa (750 aa)

**Sequences:**

MHHHHHMKIEEGKLVWINGDKGYNGLAEVGGKFEKDTGIKVTVEHPDKLEEKFPQVAATGDGPDIIFFWAHDFRG  
GYAQSGLLAEITPDKAFQDKLYPFTWDAVRYNGKLIAYPIAVEALSLIYNKDLLPNPPKTWEEIPALDKELKAKGKSAL  
MFNLQEPYFTWPLIAADGGYAFKYENGGYDIKDVGVNAGAKAGLTFLVDLIKHKHMNADTDYSIAEAAFNKGETA  
MTINGPWAWSNIDTSKVNYGVTVLPTFKGQPSKPFVGVLSAGINAASPNKELAKEFLENYLLTDEGLEAVNKDKPLG  
AVALKSYEEELAKDPRIATMENAQKGEIMPNIQMSAFWYAVRTAVINAASGRQTVDEALKDAQTNSSNNNNNN  
NNNNLGIIEGRGSHMAAAEAANCIMEVSCGQAESSEKPAEDMTSKDYFDSYAHFGIHEEMLKDEVRTLTYRNSM  
FHNHRLFKDKVVLVDVSGTGILCMFAAKAGARKVIGIECSSISDYAVKIVKANKLDHVVTIIGKVEEVELPVEKVDIIIS  
EWMGYCLFYESMLNTVLHARDKWLAPDGLIFPDRATLYVTAIEDRQYKDYKIHWWENVYGFDMSCIKDVAIKEPLV  
DVVDPKQLVTNACLIIKEVDIYTVKVEDLTFTSPFCLQVCRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTHWKQ  
TVFYMEDYLTVKTGEEIFGTIGMRPNKNNRDLDFIDLDFKQQLCELSCSTDYRMR

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.