

## PRMT3 Protein, Human (His)

<b>Cat. No.:</b>	HY-P76551
<b>Synonyms:</b>	Protein arginine N-methyltransferase 3; PRMT3; HRMT1L3
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	O60678-1 (C2-Q531)
<b>Gene ID:</b>	10196
<b>Molecular Weight:</b>	Approximately 63 kDa

### PROPERTIES

#### AA Sequence

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CSLASGATGG   RGAVENTEEDL   PELSDSGDEA   AWEDEDDADL
PHGKQQT PCL   FCNRLF TSAE   ETFSHCKSEH   QFNIDSMVHK
HGLEFYGYIK   LINFIRLKNP   TVEYMNSIYN   PVPWEKEEYL
KPVLEDDL LLL   QFDVEDLYEP   VSVPFSPNG    LSENTSVVEK
LKHMEARALS   AEAALARARE   DLQKMKQFAQ   DFVMHTDVRT
CSSSTSVIAD   LQEDEDGVYF   SSYGHYGIHE   EMLKDKIRTE
SYRDFIYQNP   HIFKDKVVDL   VGC GTGILSM   FAAKAGAKKV
LGV DQSEILY   QAMD IIRLNK   LEDTITLIK G   KIEEVHLPVE
KVDV I ISEWM   GYFLLFESML   DSVLYAKNKY   LAKGGSVYPD
ICTISLVAVS   DVNKHADRIA   FWDDVYGF KM   SCMKKAVIPE
AVVEVLDPKT   LISEPCGIKH   IDC HTT S I S D   LEFSSDFTLK
ITRTSMCTAI   AGYFDIYFEK   NCHNRVVFST   GPQSTKTHWK
QTVFLLEKPF   SVKAGEALKG   KVTVHKNKKD   PRSLT V T L T L
NNS T Q T Y G L Q
  
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**Biological Activity** The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2  $\mu$ m filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.

**Endotoxin Level** <1 EU/ $\mu$ g, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/mL in ddH<sub>2</sub>O.

**Storage & Stability** Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping** Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

### Background

PRMT3 protein, a versatile protein-arginine N-methyltransferase, catalyzes the monomethylation and asymmetric dimethylation of the guanidino nitrogens of arginine residues in target proteins, categorizing it as a type I methyltransferase. In addition to its role as a methyltransferase, PRMT3 is implicated in potentially regulating retinoic acid synthesis and signaling by inhibiting ALDH1A1 retinal dehydrogenase activity, highlighting its involvement in modulating key cellular processes. The dual enzymatic activities of PRMT3 underscore its significance in the post-translational modification of proteins and suggest its potential impact on diverse biological pathways, particularly those related to retinoic acid metabolism and signaling.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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