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PRMT1 Human

Catalog #:ENPS-371

For research use only.

Description:PRMT1 Human Recombinant (a.a. 1-353) fused with His-MBP tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 750 amino acids and having a molecular mass of 84 kDa.The PRMT1 is purified by proprietary chromatographic techniques.

Synonyms:ANM1, HCP1, HRMT1L2, IR1B4, Interferon receptor 1-bound protein 4, EC 2.1.1, Protein arginine N-methyltransferase 1, PRMT1, HMT2.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MHHHHHHMKI EEGKLVIWIN GDKGYNGLAE VGKKFEKDTG IKVTVEHPDK LEEKFPQVAA TGDGPDIIFW AHDRFGGYAQ SGLLAEITPD KAFQDKLYPF TWDAVRYNGK LIAYPIAVEA LSLIYNKDLL PNPPKTWEEI PALDKELKAK GKSALMFNLQ EPYFTWPLIA ADGGYAFKYE NGKYDIKDVG VDNAGAKAGL TFLVDLIKNK HMNADTDYSI AEAAFNKGET AM

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
The PRMT1 solution contains 40mM Tris-HCl pH 8.0, 100mM NaCl, 4mM MgCl2, 2mM DTT & 40% glycerol.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
PRMT1 Methylates (mono & asymmetric dimethylation) the guanidino nitrogens of arginyl residues present in a glycine and arginine-rich domain (may methylate HNRNPA1 and histones). Methylates SUPT5H.The PRMT1 protein functions as a histone methyltransferase specific for H4.PRMT1 is an essential factor in oncogenesis and is a potential novel therapeutic target in cancer.PRMT1-mediated methylation serves as a positive modulator of IR/IRS-1/PI3K pathway and glucose uptake in skeletal muscle cells. CAF1 is a new regulator of PRMT1-dependent arginine methylation.PRMT1 arginine-methylates MRE11 therefore it regulates the activity of MRE11-RAD50-NBS1 complex during the intra-S-phase DNA damage checkpoint response.PRMT1 plays a post-translationally part in regulating the transcriptional activity.PRMT1 is found predominantly in the cytoplasma thoµgh a fraction of PRMT1 is located in the nucleus.

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