

Recombinant Human PRMT7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PRMT7-1365H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PRMT7 MS Standard C13 and N15-labeled recombinant protein (NP_061896) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the protein arginine N-methyltransferase family of proteins. The encoded enzyme transfers single methyl groups to arginine residues to generate monomethylarginines on histone proteins as well as other protein substrates. This enzyme plays a role in a wide range of biological processes, including neuronal differentiation, male germ line imprinting, small nuclear ribonucleoprotein biogenesis, and regulation of the Wnt signaling pathway. Mutations in this gene underlie multiple related syndromes in human patients characterized by intellectual disability, short stature and other features. The encoded protein may promote breast cancer cell invasion and metastasis in human patients.
Molecular Mass	78.5 kDa
AA Sequence	MKIFCSRANPTTGSVEWLEEDHYDYHQEIARSSYADMLHDKDRNVKYYQGIRAAV SRVKDRGQKALVLDIGTGTGLLSMMAVTAGADFCYAIEVFKPMADAAVKIVEKNGFS DKIKVINKHSTEVTVGPEGDMPCRANILVTELFDTTELIGEGALPSYEHHRHLVEENC EAVPHRATVYAQLVESGRMWSWNKLFPIHVQTSLSGEQVIVPPVDVESC PGAPSVCD

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IQLNQVSPADFTVLSDVLPMSIDFSKQVSSSAACHSRRFEPLTSGRAQVVLSSWWDI
 EMDPEGKIKCTMAPFWAHS DPEEMQWRDHWMQCVYFLPQEEPVVQGSALYLVAH
 HDDYCVWYSLQRTSPEKNERVRQMRPVCDCAHLLWNRPRFGEINDQDRTDRYV
 QALRTVLKPDSVCLCVSDGSLLSVLAHHLGVEQVFTVESSAASHKLLRKIFKANHLE
 DKINIIKRPPELLTNEDLQGRKVSLLLGEFFTTSLLPWHNLYFWYVRTAVDQHLGPG
 AMVMPQAASLHAVVVEFRDLWRIRSPCGDCEGFDVHIMDDMIKRALDFRESREAEP
 HPLWEYPCRSLSSEPWQILTFDFQQPVPLQPLCAEGTVELRRPGQSHAAVLWMEYH
 LTPECTLSTGLLEPADPEGGCCWNPHCKQAVYFFSPAPDPRALLGGPRTVSYAVEF
 HPDTGDIIMEFRHADTPDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PRMT7 protein arginine methyltransferase 7 [Homo sapiens (human)]

Official Symbol PRMT7

Synonyms PRMT7; protein arginine methyltransferase 7; protein arginine N-methyltransferase 7; FLJ10640; KIAA1933; histone-arginine N-methyltransferase PRMT7; myelin basic protein-arginine N-methyltransferase; [Myelin basic protein]-arginine N-methyltransferase PRMT7;

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Gene ID	54496
mRNA Refseq	NM_019023
Protein Refseq	NP_061896
MIM	610087
UniProt ID	Q9NVM4
SDS-PAGE	