

Recombinant Human ARMT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ARMT1-3333H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	C6orf211 MS Standard C13 and N15-labeled recombinant protein (NP_078849) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Metal-dependent phosphatase that shows phosphatase activity against several substrates, including fructose-1-phosphate and fructose-6-phosphate. Its preference for fructose-1-phosphate, a strong glycosylating agent that causes DNA damage rather than a canonical yeast metabolite, suggests a damage-control function in hexose phosphate metabolism. Has also been shown to have O-methyltransferase activity that methylates glutamate residues of target proteins to form gamma-glutamyl methyl ester residues. Possibly methylates PCNA, suggesting it is involved in the DNA damage response.
Molecular Mass	51 kDa
AA Sequence	MAVVPASLSGQDVGSFAYLTIKDRIPQILTKVIDTLHRHKSEFFEKGHEEGVEAEKKAI SLLSKLRNELQTDKPFIFLVEKFDVTDIWNQYLEYQQSLLNESDGKSRWFYSPWLLV ECYMYRRIHEAIIQSPPIDYFDVFKESKEQNFYGSQESIILCTHLQQLIRTIEDLDENQ LKDEFFKLLQISLWGNKCDLSLSGGESSQNTNVLNSLEDLKPFIILLNDMEHLWSLLS NCKKTREKASATRVYIVLDNSGFELVTDLILADFLLSSELATEVHFYGKTIPWFVSDTT

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IHDFNWLIEQVKHSNHKWMSKCGADWEEYIKMGKWVYHNHIFWTLPEHYCAMPQV
 APDLYAELQKAHLILFKGDLNRYRKL TGDRKWEFSVPPFHQALNGFHPAPLCTIRTLKAE
 IQVGLQPGQGELLASEPSWWTTGKYGIFQYDGPLTRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

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 [ARMT1 acidic residue methyltransferase 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [ARMT1](#)

Synonyms ARMT1; acidic residue methyltransferase 1; C6orf211; damage-control phosphatase ARMT1; UPF0364 protein C6orf211; protein-glutamate O-methyltransferase; sugar phosphate phosphatase ARMT1; EC 2.1.1.-

Gene ID [79624](#)

mRNA Refseq [NM_024573](#)

Protein Refseq [NP_078849](#)

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MIM 616332

UniProt ID Q9H993

SDS-PAGE



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