

## Recombinant Mouse Armt1 Protein, Myc/DDK-tagged

Cat. No. Armt1-1723M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length acidic residue methyltransferase 1 (Armt1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	51 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.

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**Concentration** >50 µg/mL as determined by microplate BCA method

**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** [Armt1 acidic residue methyltransferase 1 \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Armt1](#)

**Synonyms** Armt1; acidic residue methyltransferase 1; AW320013; AW536799; 1700052N19Rik; damage-control phosphatase ARMT1; UPF0364 protein C6orf211 homolog; protein-glutamate O-methyltransferase; sugar phosphate phosphatase ARMT1; EC 2.1.1.-

**Gene ID** [73419](#)

**mRNA Refseq** [NM\\_024261](#)

**Protein Refseq** [NP\\_077223](#)

**UniProt ID** [A6H630](#)

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