

Recombinant Mouse As3mt Protein, Myc/DDK-tagged

Cat. No. As3mt-1732M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length arsenic (+3 oxidation state) methyltransferase (As3mt), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Catalyzes the transfer of a methyl group from AdoMet to trivalent arsenicals producing methylated and dimethylated arsenicals. It methylates arsenite to form methylarsonate, Me-AsO ₃ H ₂ , which is reduced by methylarsonate reductase to methylarsonite, Me-As(OH) ₂ . Methylarsonite is also a substrate and it is converted into the much less toxic compound dimethylarsinate (cacodylate), Me ₂ As(O)-OH.
Molecular Mass	41.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

GENE INFORMATION

Gene Name [As3mt arsenite methyltransferase \[Mus musculus \(house mouse\) \]](#)

Official Symbol [As3mt](#)

Synonyms

AS3MT; arsenic (+3 oxidation state) methyltransferase; arsenite methyltransferase; methyltransferase Cyt19; methylarsonite methyltransferase; S-adenosylmethionine:arsenic (III) methyltransferase; S-adenosyl-L-methionine:arsenic(III) methyltransferase; Cyt19; 2310045H08Rik

Gene ID [57344](#)

mRNA Refseq [NM_020577](#)

Protein Refseq [NP_065602](#)

UniProt ID [Q91WU5](#)

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