

## Recombinant Mouse Nudt1 Protein, Myc/DDK-tagged

**Cat. No.** Nudt1-4532M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length nudix (nucleoside diphosphate linked moiety X)-type motif 1 (Nudt1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	Antimutagenic Plays a redundant role in sanitizing oxidized nucleotide pools, such as 8-oxo-dGTP pools Acts as a sanitizing enzyme for oxidized nucleotide pools, thus suppressing cell dysfunction and death induced by oxidative stress. Hydrolyzes 8-oxo-dGTP, 8-oxo-dATP and 2-OH-dATP, thus preventing misincorporation of oxidized purine nucleoside triphosphates into DNA and subsequently preventing A:T to C:G and G:C to T:A transversions. Able to hydrolyze also the corresponding ribonucleotides, 2-OH-ATP, 8-oxo-GTP and 8-oxo-ATP. Does not play a role in U8 snoRNA decapping activity Binds U8 snoRNA
<b>Molecular Mass</b>	18.4 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.

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

**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** [Nudt1 nudix \(nucleoside diphosphate linked moiety X\)-type motif 1 \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Nudt1](#)

**Synonyms** NUDT1; nudix (nucleoside diphosphate linked moiety X)-type motif 1; 7,8-dihydro-8-oxoguanine triphosphatase; 8-oxo-dGTPase; nudix motif 1; 2-hydroxy-dATP diphosphatase; 8-oxo-7,8-dihydro-2-dGTPase; mutT human homolog (8-oxo-dGTPase); nucleoside diphosphate-linked moiety X motif 1; Mth1

**Gene ID** [17766](#)

**mRNA Refseq** [NM\\_008637](#)

**Protein Refseq** [NP\\_032663](#)

**UniProt ID** [P53368](#)

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