

Recombinant Mouse Nudt1 Protein, Myc/DDK-tagged

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	HEK293
Description	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
Molecular Mass	18.4 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.

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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 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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