

Recombinant Mouse Nudt15 Protein, Myc/DDK-tagged

Cat. No. Nudt15-4536M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length nudix (nucleoside diphosphate linked moiety X)-type motif 15 (Nudt15), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	May catalyze the hydrolysis of nucleoside triphosphates including dGTP, dTTP, dCTP, their oxidized forms like 8-oxo-dGTP and the prodrug thiopurine derivatives 6-thio-dGTP and 6-thio-GTP. Could also catalyze the hydrolysis of some nucleoside diphosphate derivatives. Hydrolyzes oxidized nucleosides triphosphates like 8-oxo-dGTP in vitro, but the specificity and efficiency towards these substrates are low. Therefore, the potential in vivo sanitizing role of this enzyme, that would consist in removing oxidatively damaged forms of nucleosides to prevent their incorporation into DNA, is unclear. Through the hydrolysis of thioguanosine triphosphates may participate in the catabolism of thiopurine drugs. May also have a role in DNA synthesis and cell cycle progression by stabilizing PCNA.
Molecular Mass	19.6 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.

 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	Store at -80 centigrade after receiving vials.
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	Nudt15 nudix (nucleoside diphosphate linked moiety X)-type motif 15 [Mus musculus (house mouse)]
Official Symbol	Nudt15
Synonyms	Nudt15; nudix (nucleoside diphosphate linked moiety X)-type motif 15; MTH2; 6530403O17; A730068G11Rik; nucleotide triphosphate diphosphatase NUDT15; 7,8-dihydro-8-oxoguanine-triphosphatase NUDT15; 8-oxo-dGTPase NUDT15; MutT homolog 2; nucleoside diphosphate-linked moiety X motif 15; nucleoside diphosphate-linked to another moiety X hydrolase 15; nudix hydrolase 15; nudix motif 15; probable 7,8-dihydro-8-oxoguanine triphosphatase NUDT15; probable 8-oxo-dGTP diphosphatase NUDT15; EC 3.6.1.9
Gene ID	214254
mRNA Refseq	NM_172527
Protein Refseq	NP_766115
UniProt ID	Q8BG93

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