Recombinant Mouse Nudt12 Protein, Myc/DDK-tagged

Cat. No. Nudt12-4534M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length nudix (nucleoside diphosphate linked moiety X)-type motif 12 (cDNA clone MGC:68086 IMAGE:2646355), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	mRNA decapping enzyme that specifically removes the nicotinamide adenine dinucleotide (NAD) cap from a subset of mRNAs by hydrolyzing the diphosphate linkage to produce nicotinamide mononucleotide (NMN) and 5' monophosphate mRNA. The NAD-cap is present at the 5'-end of some RNAs; in contrast to the canonical N7 methylguanosine (m7G) cap, the NAD cap promotes mRNA decay. Preferentially acts on NAD-capped transcripts in response to nutrient stress. Also acts on free nicotinamide adenine dinucleotide molecules: hydrolyzes NAD(H) into NMN(H) and AMP, and NADPH into NMNH and 2',5'-ADP. May act to regulate the concentration of peroxisomal nicotinamide nucleotide cofactors required for oxidative metabolism in this organelle.
Molecular Mass	40.8 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.

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	Nudt12 nudix (nucleoside diphosphate linked moiety X)-type motif 12 [Mus musculus (house mouse)]
Official Symbol	Nudt12
Synonyms	Nudt12; nudix (nucleoside diphosphate linked moiety X)-type motif 12; 0610016O18Rik; NAD-capped RNA hydrolase NUDT12; NADH pyrophosphatase NUDT12; deNADding enzyme NUDT12; nucleoside diphosphate-linked moiety X motif 12; nudix (nucleoside diphosphnudix (nucleoside diphosphate linked moiety X)-type motif 12ate linked moiety X)-type motif 12; nudix motif 12; peroxisomal NADH pyrophosphatase NUDT12; EC 3.6.1.22
Gene ID	67993
mRNA Refseq	NM_026497
Protein Refseq	NP_080773
UniProt ID	Q9DCN1

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