

Recombinant Mouse Nudt3 Protein, Myc/DDK-tagged

Cat. No. Nudt3-4541M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length nudix (nucleotide diphosphate linked moiety X)-type motif 3 (Nudt3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Cleaves a beta-phosphate from the diphosphate groups in PP-InsP5 (diphosphoinositol pentakisphosphate) and [PP]2-InsP4 (bisdiphosphoinositol tetrakisphosphate), suggesting that it may play a role in signal transduction. InsP6 (inositol hexakisphosphate) is not a substrate. Also able to catalyze the hydrolysis of dinucleoside oligophosphates, with Ap6A and Ap5A being the preferred substrates. The major reaction products are ADP and p4a from Ap6A and ADP and ATP from Ap5A. Also able to hydrolyze 5-phosphoribose 1-diphosphate. Acts as a negative regulator of the ERK1/2 pathway.
Molecular Mass	19 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 [Nudt3 nudix \(nucleotide diphosphate linked moiety X\)-type motif 3 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Nudt3](#)

Synonyms NUDT3; nudix (nucleotide diphosphate linked moiety X)-type motif 3; diphosphoinositol polyphosphate phosphohydrolase 1; DIPP-1; muDIPP1; nudix motif 3; nucleoside diphosphate-linked moiety X motif 3; diadenosine 5,5-P1,P6-hexaphosphate hydrolase 1; Dipp; AA960325; 1110011B09Rik

Gene ID [56409](#)

mRNA Refseq [NM_019837](#)

Protein Refseq [NP_062811](#)

UniProt ID [Q9JI46](#)

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