

Recombinant Mouse Nme2 Protein, Myc/DDK-tagged

Cat. No. Nme2-4436M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length NME/NM23 nucleoside diphosphate kinase 2 (Nme2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Major role in the synthesis of nucleoside triphosphates other than ATP. The ATP gamma phosphate is transferred to the NDP beta phosphate via a ping-pong mechanism, using a phosphorylated active-site intermediate. Negatively regulates Rho activity by interacting with AKAP13/LBC. Acts as a transcriptional activator of the MYC gene; binds DNA non-specifically. Binds to both single-stranded guanine- and cytosine-rich strands within the nuclease hypersensitive element (NHE) III1 region of the MYC gene promoter. Does not bind to duplex NHE III1. Has G-quadruplex (G4) DNA-binding activity, which is independent of its nucleotide-binding and kinase activity. Binds both folded and unfolded G4 with similar low nanomolar affinities. Stabilizes folded G4s regardless of whether they are prefolded or not. Exhibits histidine protein kinase activity.
Molecular Mass	17.8 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.

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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	Nme2 NME/NM23 nucleoside diphosphate kinase 2 [Mus musculus (house mouse)]
Official Symbol	Nme2
Synonyms	NME2; non-metastatic cells 2, protein (NM23B) expressed in; nucleoside diphosphate kinase B; P18; NDK B; NDP kinase B; histidine protein kinase NDKB; nucleoside-diphosphate kinase 2; expressed in non-metastatic cells 2 protein; NM23B; NM23-H2; nm23-M2; MGC107562; MGC107563
Gene ID	18103
mRNA Refseq	NM_008705
Protein Refseq	NP_032731
UniProt ID	Q01768