

## Product datasheet for TP501741

### Nme4 (NM\_019731) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse NME/NM23 nucleoside diphosphate kinase 4 (Nme4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR201741 representing NM_019731 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MGSLFGRVAALRALLCGPRFQCLLVRPSSGGPPWPQERTLVAVKPDGVQRRVLVGTVIQRFERRGFKLVGM KMLQAPESILAEHYRDLQRKPFYPALISYMSSGPVAMVWEGPNVVHISRAMIGHTDSTEAPGTIRGDF SVHISRNVIHASDSVDGAQREIELWFQSSELLNWADGGHHSSCYPA</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-MYC/DDK
Predicted MW:	21 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_062705</a>
Locus ID:	56520
UniProt ID:	<a href="#">Q9WV84</a>
RefSeq Size:	863
Cytogenetics:	17 A3.3



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RefSeq ORF: 558

Synonyms: 2610027N22Rik; 2810024O08Rik; 5730493H09Rik; NM23-M4; Nm23M4

**Summary:** 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. Through the catalyzed exchange of gamma-phosphate between di- and triphosphonucleosides participates in regulation of intracellular nucleotide homeostasis. Binds to anionic phospholipids, predominantly to cardiolipin; the binding inhibits its phosphotransfer activity. Acts as mitochondria-specific NDK; its association with cardiolipin-containing mitochondrial inner membrane is coupled to respiration suggesting that ADP locally regenerated in the mitochondrion innermembrane space by its activity is directly taken up via ANT ADP/ATP translocase into the matrix space to stimulate respiratory ATP regeneration. Proposed to increase GTP-loading on dynamin-related GTPase OPA1 in mitochondria. In vitro can induce liposome cross-linking suggesting that it can cross-link inner and outer membranes to form contact sites, and promotes intermembrane migration of anionic phospholipids. Promotes the redistribution of cardiolipin between the mitochondrial inner membrane and outer membrane which is implicated in pro-apoptotic signaling (By similarity).[UniProtKB/Swiss-Prot Function]