

## Recombinant Rat Nme2 protein, His-tagged

**Cat. No.** Nme2-33R    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant rat Nme2, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>Description</b>	Nme2 also known as nucleoside diphosphate kinaseB is a heterodimeric protein functioning as a nucleoside diphosphate (NDP) kinase. Nme2 is a ubiquitous enzyme that catalyses phosphorylation of nucleoside 5'-diphosphate (NDP) to the corresponding triphosphate (NTP), following a Ping-Pong mechanism which includes the formation of a phosphohistidine intermediate.
<b>Form</b>	Liquid. In Phosphate Buffered Saline pH 7.4 containing 10% glycerol
<b>Molecular Mass</b>	19.7kDa (175aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMANLERT FIAIKPDGVQ RGLVGEIIKR FEQKGFRLVA MKFLRASEEH LKQHYIDLKD RPFPPGLVKYMNSGPVVAMV WEGLNVVKTG RVMLGETNPA DSKPGTIRGD FCIQVGRNII HGSDSVESAE KEIGLWFKPE ELIDYKSCAH DWVYE
<b>Purity</b>	>90% by SDS - PAGE
<b>Storage</b>	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot

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and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 1mg/ml (determined by Absorbance at 280nm)

## GENE INFORMATION

**Gene Name** Nme2 non-metastatic cells 2, protein (NM23B) expressed in [ Rattus norvegicus ]

**Official Symbol** Nme2

**Synonyms** NME2; non-metastatic cells 2, protein (NM23B) expressed in; nucleoside diphosphate kinase B; P18; NDK B; NDP kinase B; NDP kinase alpha; histidine protein kinase NDKB; expressed in non-metastatic cells 2; NDKB; nm23-2; p18-12d;

**Gene ID** 83782

**mRNA Refseq** NM\_031833

**Protein Refseq** NP\_114021

**MIM**

**UniProt ID**

**Pathway** Metabolic pathways, organism-specific biosystem; Nucleotide Metabolism, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine metabolism, conserved biosystem; Pyrimidine ribonucleotide biosynthesis, UMP =>

**Function** ATP binding; drug binding; enzyme binding; fatty acid binding; intermediate filament

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binding; kinase activity; metal ion binding; nucleoside diphosphate kinase activity;  
nucleoside diphosphate kinase activity; nucleotide binding; protein histidine kinase

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