

Active Recombinant Human NME2 protein

Cat. No. NME2-193H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NME2 protein was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	NME2, also known as NM23B, is a heterodimeric protein functioning as a nucleoside diphosphate (NDP) kinase. NME1 and NME2 comprise the 152 amino acid A and B polypeptide chains of the NM23 enzyme, respectively. NME2 is identical to the beta subunit of human erythrocyte NDP kinase. NDP kinases are involved in the synthesis of nucleoside triphosphates, and NM23 may act in the regulation of signal transduction by complexing with G proteins, causing activation/inactivation of developmental pathways.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol
Bio-activity	Specific activity is > 1,800 units/mg, and is defined as the amount of enzyme that convert 1.0 umole each of ATP and TDP to ADP and TTP per minute at pH 7.5 at 25C in a couple system with PK/LDH.
Molecular Mass	17.2 kDa (152aa), confirmed by MALDI-TOF
AA Sequence	MANLERTFIA IKPDGVQRGL VGEIIKRFEQ KGFRLVAMKF LRASEEHLKQ HYIDLKDRPF FPGLVKYMNS GPVVAMVWEG LNVVKTGRVMLGETNPADSK

 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

PGTIRGDFCI QVGRNIIHGS DSVKSAEKEI SLWFKPEELV DYKSCAHDWV YE

Purity > 90% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name NME2 non-metastatic cells 2, protein (NM23B) expressed in [Homo sapiens]

Official Symbol NME2

Synonyms NME2; non-metastatic cells 2, protein (NM23B) expressed in; nucleoside diphosphate kinase B; NM23 H2; NDP kinase B; c-myc transcription factor; histidine protein kinase NDKB; nucleotide diphosphate kinase B; c-myc purine-binding transcription factor PUF; non-metastatic cells 2, protein (NM23) expressed in; PUF; NDKB; NDPKB; NM23B; NDPK-B; NM23-H2; MGC2212; MGC111212;

Gene ID 4831

mRNA Refseq NM_001018137

Protein Refseq NP_001018147

MIM 156491

UniProt ID P22392

 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

Chromosome Location	17q21.33
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Nucleotide Metabolism, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Pyrimidine metabolism, organism-specific biosystem;
Function	ATP binding; DNA binding; kinase activity; metal ion binding; nucleoside diphosphate kinase activity; nucleotide binding; protein binding; protein histidine kinase activity; sequence-specific DNA binding transcription factor activity; transferase activity

 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