# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-152aa

**UniProt No.** P22392

**NCBI Accession No.** NP\_001018149.1

## **Alternative Names**

NME/NM23 nucleoside diphosphate kinase 2, Nucleoside diphosphate kinase B, C-myc purine-binding transcription factor PUF, Histidine protein kinase NDKB, NDK B, NDP kinase B, NM23B, NDPKB

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

17.2 kDa (152aa) confirmed by MALDI-TOF

**Concentration** 1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity > 95% by SDS-PAGE

Tag Non-Tagged

Application SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### 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. Recombinant human NME2 protein



was expressed in E. coli and purified by using conventional chromatography techniques.

### **Amino acid Sequence**

MANLERTFIA IKPDGVQRGL VGEIIKRFEQ KGFRLVAMKF LRASEEHLKQ HYIDLKDRPF FPGLVKYMNS GPVVAMVWEG LNVVKTGRVM LGETNPADSK PGTIRGDFCI QVGRNIIHGS DSVKSAEKEI SLWFKPEELV DYKSCAHDWV YE

### **General References**

Munkonge FM., et al. (2009) J Biol Chem. 284(39):26978-87. Treharne KJ., et al. (2009) FEBS Lett. 583(17):2789-92.

## DATA

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.