

Recombinant human NM23-H2/NME2 protein

Catalog Number: ATGP3251

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-152aa

UniProt No.

P22392

NCBI Accession No.

NP_001018149

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

> 90% by SDS-PAGE

Biological Activity

Specific activity is > 1,800unit/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.

Tag

Non-Tagged

Application

SDS-PAGE, Enzyme Activity

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.

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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

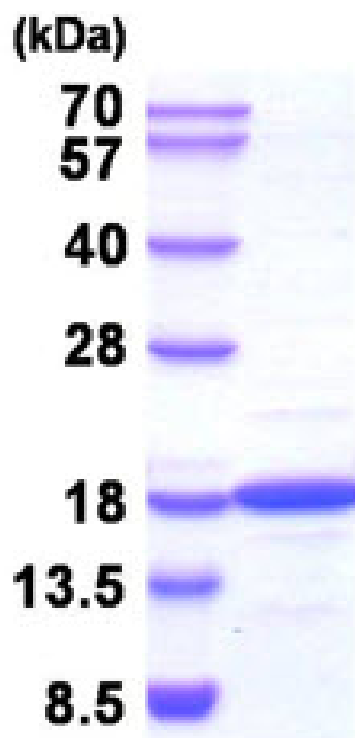
General References

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.

15% SDS-PAGE (3ug)