

NME2 active protein

NME2, 1-152aa, Human, E Coli (Bioactivity Validated)

CATALOG # AAA48916	HOST E Coli	APPLICATIONS SDS-Page
------------------------------	-----------------------	---------------------------------

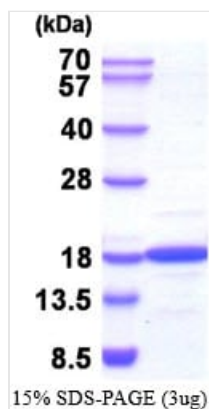
PRODUCT SYNONYMS

NME2; 1-152aa; Human; E Coli (Bioactivity Validated); Nucleoside diphosphate kinase B; NDPK-B; NDPKB; NM23-H2; NM23B; NME2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 1mM DTT, 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MANLERTFIA IKPDGVQRGL VGEIIRFEQ KGFRLVAMKF LRASEEHLKQ HYIDLKDRPF FPGLVKYMNS GPVVAMVWEG LNVVKTGRVM LGETNPADSK PGTIRGDFCI QVGRNIIHGS DSVKSAEKEI SLWFKPEELV DYKSCAHDWV YE
Sequence Length	152
Applicable Applications for NME2 active protein	Enzyme Activity, SDS-PAGE
Domain	1-152aa
Biological 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.
Preparation and Storage	Can be stored at 2-8 degree C short term For long term storage, aliquot and store at -20 degree C or -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for NME2 active protein	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.
Product Categories/Family for NME2 active protein	Metabolism; Signal Transduction; Cancer
References	Munkonge FM., et al. (2009) J Biol Chem. 284 (39):26978-87.; Treharne KJ., et al. (2009) FEBS Lett. 583 (17):2789-92.

NCBI AND UNIPROT INFORMATION

NCBI GI #	66392227
NCBI GeneID	4831
NCBI Accession #	NP_001018149
NCBI GenBank Nucleotide #	NM_001018139.2
UniProt Accession #	P22392; Q1WM23; Q6LCT6; A8MWA3
Molecular Weight	17.2 kDa (152aa), confirmed by MALDI-TOF
NCBI Official Full Name	nucleoside diphosphate kinase B isoform a
NCBI Official Synonym Full Names	NME/NM23 nucleoside diphosphate kinase 2
NCBI Official Symbol	NME2
NCBI Official Synonym Symbols	PUF; NDKB; NDPKB; NM23B; NDPK-B; NM23-H2
NCBI Protein Information	nucleoside diphosphate kinase B
UniProt Protein Name	Nucleoside diphosphate kinase B
UniProt Gene Name	NME2
UniProt Synonym Gene Names	NM23B; NDK B; NDP kinase B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.