NME1 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	NME1, Lysate
Full Product Name	Human NME1 Protein Lysate
Product Gene Name	NME1 lysate
Product Synonym Names	NME1; AWD; GAAD; NB; NBS; NDKA; NDPK-A; NDPKA; NM23; NM23-H1
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	30,137 Da
OMIM	156490
3D Structure	ModBase 3D Structure for P15531
Related Product Information for NME1 lysate	Human NME1 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of NME1 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NME1 purchase	MBS8416095 is a lysate targeting NME1. Also known as Human NME1 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NME1. It may not necessarily be applicable to this product.

NCBI GI #	4557797
NCBI GeneID	4830
NCBI Accession #	NP_000260
UniProt Primary Accession #	P15531
UniProt Secondary Accession #	Q6FGK3; Q86XQ2; Q9UDJ6
UniProt Related Accession #	P15531
GenBank Nucleotide #	NM_000269
NCBI Official Full Name	nucleoside diphosphate kinase A isoform b
NCBI Official Synonym Full Names	NME/NM23 nucleoside diphosphate kinase 1
NCBI Official Symbol	NME1
NCBI Official Synonym Symbols	NB; AWD; NBS; GAAD; NDKA; NM23; NDPKA; NDPK-A; NM23-H1
UniProt Protein Name	Nucleoside diphosphate kinase A

UniProt Synonym Protein Names	Granzyme A-activated DNase; GAAD; Metastasis inhibition factor nm23; NM23-H1; Tumor metastatic process-associated protein
Protein Family	Nucleoside diphosphate kinase
UniProt Gene Name	NME1
UniProt Synonym Gene Names	NDPKA; NM23; NDK A; NDP kinase A; GAAD
UniProt Entry Name	NDKA_HUMAN
NCBI Protein Information	nucleoside diphosphate kinase A
NCBI Summary for NME1	This gene (NME1) was identified because of its reduced mRNA transcript levels in highly metastatic cells. Nucleoside diphosphate kinase (NDK) exists as a hexamer composed of 'A' (encoded by this gene) and 'B' (encoded by NME2) isoforms. Mutations in this gene have been identified in aggressive neuroblastomas. Two transcript variants encoding different isoforms have been found for this gene. Co-transcription of this gene and the neighboring downstream gene (NME2) generates naturally-occurring transcripts (NME1-NME2), which encodes a fusion protein comprised of sequence sharing identity with each individual gene product. [provided by RefSeq, Jul 2008]
UniProt Comments for NME1	NME1: an enzyme with multiple activities including histidine protein kinase, nucleoside-diphosphate kinase, serine/threonine-specific protein kinase, geranyl and farnesyl pyrophosphate kinase and 3'-5' exonuclease activities. Plays a major role in the synthesis of nucleoside triphosphates other than ATP. The ATP gamma phosphate is transferred to the NDP beta phosphate via a ping-pong mechanism, using a phosphorylated active-site intermediate. Involved in cell proliferation, differentiation and development, G protein-coupled receptor endocytosis, cytotoxic T cell and NK cell-mediated cell death, and gene expression. Required for neural development including neural patterning and cell fate determination. During granzyme A (GZMA)-mediated cell death, works in concert with TREX1. NME1 nicks one strand of DNA and TREX1 removes bases from the free 3' end to enhance DNA damage and prevent DNA end reannealing and rapid repair. Three alternatively spliced human proteins have been reported. Protein type: Nucleotide Metabolism - purine; Kinase, nucleoside diphosphate; Kinase, other; EC 2.7.4.6; Tumor suppressor; Protein kinase, histidine; Nucleotide Metabolism - pyrimidine; Other group; NDK family Chromosomal Location of Human Ortholog: 17q21.3 Cellular Component: mitochondrion; membrane; cytoplasm; nucleus; cytosol Molecular Function: identical protein binding; protein binding; GTP binding; deoxyribonuclease activity; nucleoside diphosphate kinase activity; magnesium ion binding; ATP binding; ribosomal small subunit binding Biological Process: GTP biosynthetic process; nervous system development; nucleobase, nucleoside and nucleotide interconversion; nucleobase, nucleoside and nucleotide metabolic process; UTP biosynthetic process; nucleoside diphosphate phosphorylation; endocytosis; DNA catabolic process; regulation of apoptosis; negative regulation of cell proliferation; CTP biosynthetic process; pyrimidine nucleotide metabolic process; nucleoside triphosphate biosynthetic process; cell differentiation; positive regulation of epithelial cell proliferation; positive regulation of DNA binding; purine nucleotide metabolic process Disease: Neuroblastoma, Susceptibility To
Research Articles on NME1	**1.** Results demonstrate that nm23 plays a vital role in decidualization in mice and humans and that nm23 gene expression is hormonally regulated.
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