

Active Recombinant Human NME1 protein

Cat. No. NME1-192H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NME1 was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	Non-metastatic cells 1 (NME1), also known as NM23-H1, originally identified as a candidate metastasis suppressor gene. NME1 is expressed in different tumor types where their levels have been alternatively associated with reduced or increased metastatic potential. Reductions in NME1 expression have been significantly associated with aggressive behavior in melanoma, breast, colon, and gastric carcinomas. On the contrary, high levels of NME1 gene expression are noted in the advanced stage of thyroid carcinomas.
Form	Liquid. In 20mM Tris-HCl buffer (pH7.5) containing 1mM DTT, 10% glycerol
Bio-activity	Specific activity is > 1,200 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	17.1 kDa (152aa), confirmed by MALDI-TOF
AA Sequence	MANCERTFIA IKPDGVQRGL VGEIIKRFEQ KGFRLVGLKF MQASEDLLKE HYVDLKDRPF FAGLVKYMHS GPVAMVWEG LNVVKTGRVMLGETNPADSK

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PGTIRGDFCI QVGRNIIHGS DSVESAEKEI GLWFHPEELV DYTSCAQNWY YE

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

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 NME1 non-metastatic cells 1, protein (NM23A) expressed in [Homo sapiens]

Official Symbol NME1

Synonyms NME1; non-metastatic cells 1, protein (NM23A) expressed in; nucleoside diphosphate kinase A; NM23; NM23 H1; NDP kinase A; granzyme A-activated DNase; metastasis inhibition factor nm23; tumor metastatic process-associated protein; NB; AWD; NBS; GAAD; NDKA; NDPKA; NDPK-A; NM23-H1;

Gene ID 4830

mRNA Refseq NM_000269

Protein Refseq NP_000260

MIM 156490

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UniProt ID	P15531
Chromosome Location	17q21.33
Pathway	Arf6 downstream pathway, organism-specific biosystem; Arf6 trafficking events, organism-specific biosystem; E-cadherin signaling in the nascent adherens junction, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Purine metabolism, organism-specific biosystem;
Function	ATP binding; GTP binding; deoxyribonuclease activity; gamma-tubulin binding; identical protein binding; kinase activity; magnesium ion binding; nucleoside diphosphate kinase activity; nucleotide binding; protein binding; transferase activity;

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