Active Recombinant Human NME3 protein, His-tagged

Cat. No. NME3-3453H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NME3(22-169aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	22-169 a.a.
Description	NME3, also known as, a potential suppressor of metastasis, is expressed at a much lower level in highly metastatic cells than in cells with lower metastatic potential. It is important for the synthesis of nucleoside triphosphates and may play a role in apoptosis induction and hematopoiesis. It is preferentially expressed during early stages of myeloid differentiation of highly purified CD34+ cells.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 50% glycerol, 0.1M NaCl, 2mM DTT
Bio-activity	Specific activity is >150 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	19.1 kDa (169aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MERTFLAVKR DGVERRLVGE IVRRFERKGF KLVALKLVQA SEELLREHYA ELRERPFYGR LVKYMASGPV VAMVWQGLDV

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	VRTSRALIGA TNPADAPPGT IRGDFCIEVG KNLIHGSDSV ESAREIALW FRADELLCWE DSAGHWLYE
Purity	>95% 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	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	NME3 non-metastatic cells 3, protein expressed in [Homo sapiens]
Official Symbol	NME3
Synonyms	NME3; non-metastatic cells 3, protein expressed in; nucleoside diphosphate kinase 3; DR nm23; NM23 H3; NDK 3; NDP kinase 3; NDP kinase C; nucleoside diphosphate kinase C; NDPKC; NDPK-C; NM23H3; DR-nm23; NM23-H3; c371H6.2; KIAA0516;
Gene ID	4832
mRNA Refseq	NM_002513
Protein Refseq	NP_002504
MIM	601817
UniProt ID	Q13232

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Chromosome Location	16q13.3
Pathway	Metabolic pathways, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine metabolism, conserved biosystem; Pyrimidine ribonucleotide biosynthesis, UMP =>UDP/UTP,CDP/CTP, organism-specific biosystem;
Function	ATP binding; kinase activity; metal ion binding; nucleoside diphosphate kinase activity; nucleotide binding; transferase activity;

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