

NME1, 1-152 aa

Human, Recombinant, *E.coli*

Cat. No. IBATGP3250

Full name: Non-metastatic cells 1

NCBI Accession No.: NP_000260

Synonyms: Nucleoside diphosphate kinase A, NDP kinase A, AWD, GAAD, NB, NBS, NDPK-A, NM23, NM23-H1

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. Recombinant human NME1 was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH7.5) containing 1mM DTT, 10% glycerol

Molecular Weight: 17.1 kDa (152aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: < 1 EU per 1ug of protein (determined by LAL method)

Biological 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.

(kDa)

70
57
40
28
18
13.5
8.5



15% SDS-PAGE (3ug)

Sequences of aminoacids:

MANCERTFIA IKPDGVQRGL VGEIIKRFEQ KGFRLVGLKF MQASEDLLKE HYDLKDRPF FAGLVKYMHS GPVVMVWEG LNVVKTGRVM
LGETNPADSK PGTIRGDFCI QVGRNIHGS DSVESAEKEI GLWFHPEELV DYTSCAQNW I YE

General references:

Tee YT., *et al.* (2006) *Taiwan J Obstet Gynecol.* **45**(2):107-13.

Negroni A., *et al.* (2000) *Cell Death Differ.* **7**(9):843-50.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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