

NME1, human recombinant

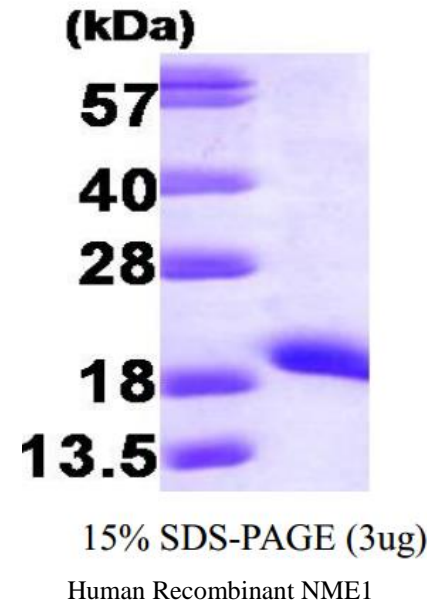
CATALOG #:	7823-100	100 µg
ALTERNATE NAMES:	Non-metastatic cells 1, Nucleoside diphosphate kinase A, NDP kinase A, AWD, GAAD, NB, NBS, NDPK-A, NM23, NM23-H1.	
SOURCE:	E. Coli	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	17.1 kDa (152 aa, 1-152 aa)	
FORM:	Liquid	
FORMULATION:	1 mg/ml solution in 20 mM Tris-HCl buffer (pH 7.5) containing 10% glycerol and 1 mM DTT	
ENDOTOXIN LEVEL:	< 1.0 EU per 1 µg of protein (determined by LAL method)	

STORAGE CONDITIONS: 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.

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.

AMINO ACID SEQUENCE: MANCERTFIA IKPDGVQRGL VGEIHKRFEQ KGFRLVGLKF MQASEDLLKE HYVDLKDPRF FAGLVKYMHS GPVVAMVWEG LNVVKTGRVM LGETNPADSK PGTIRGDFCI QVGRNIIHGS DSVESAEKEI GLWFHPEELV DYTSCAQNW IYE

BIOLOGICAL ACTIVITY: Specific activity is > 180 unit/ml, in which one unit will convert 1.0 µmole each of TDP and ATP to TTP and ADP per minute at pH 7.6 at 25°C in a coupled system with PK/LDH.

**RELATED PRODUCTS:**

- NME2, human recombinant (Cat. No. 7824-100)
- NME3, human recombinant (Cat. No. 7825-100)
- NME4, human recombinant (Cat. No. 7826-100)

FOR RESEARCH USE ONLY! Not to be used in humans.