

NME1 Human

Description: NME1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 152 amino acids (1-152 a.a.) and having a molecular mass of 17.1kDa. The NME1 is purified by proprietary chromatographic techniques.

Catalog #: PRPS-722

For research use only.

Synonyms: Nucleoside diphosphate kinase A, NDP kinase A, NDK A, Tumor metastatic process-associated protein, Metastasis inhibition factor nm23, nm23-H1, Granzyme A-activated DNase, GAAD, NME1, NDPKA, NM23, NB, AWD, NBS, NDPK-A.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MANCERTFIA IKPDGVQRGL VGEIIRFEQ KGFRVLVGLKF
MQASEDLLKE HYVDLKDRPF FAGLVKYMHS GPVVAMVWEG LNVVKTGRVM LGETNPADSK
PGTIRGDFCI QVGRNIIHGS DSVESAEKEI GLWFHPEELV DYTSCAQNWY YE.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The NME1 solution contains 20mM Tris-HCl buffer (pH7.5), 1mM DTT and 10% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

NDK (Nucleoside diphosphate kinase) exists as a hexamer composed of 'A' (encoded by NME1) and 'B' (encoded by NME2) isoforms. NME1 is involved in cell proliferation, differentiation and development, signal transduction, G protein-coupled receptor endocytosis, and gene expression. It also has tumor metastasis-suppressive capacity. NME1 has a key role in the synthesis of nucleoside triphosphates other than ATP. NME1 is essential for neural development including neural patterning and cell fate determination. The NME1 gene is expressed in various tumor types where its levels have been alternatively linked to reduced or increased metastatic potential. Decrease in NME1 expression is notably connected to aggressive behavior in melanoma, breast, colon, and gastric carcinomas. In contrast, elevated levels of NME1 gene expression are noted in the advanced stage of thyroid carcinomas. Somatic mutations of the NME1 gene are found in neuroblastoma. Increased NME1 in neuroblastoma is linked to features of the disease that are associated with aggressive tumors.

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