
Product Data Sheet

Product Name: NME1 Human
 Cat. No.: GP24051
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MANCERTFIA IKPDGVQRGL VGEIIKRFEQ KGFRLVGLKF MQASEDLLKE HYVDLKDRPF FAGLVKYMHS GPVVAMVWEG LNVVKTGRVM LGETNPADSK PGTIRGDFCI QVGRNIIHGS DSVESAEKEI GLWFHPEELV DYTSCAQNWI YE.		
Formulation	The NME1 solution contains 20mM Tris-HCl buffer (pH7.5), 1mM DTT and 10% glycerol.		

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 future 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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA