

Datasheet for ABIN7197215

NME1 Protein (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	NME1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NME1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human NME1/NDKA Protein (His Tag)
Sequence:	Ala 2-Glu 152
Characteristics:	A DNA sequence encoding the human NME1 isoform b (NP_000260.1) (Ala 2-Glu 152) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 98 % as determined by reducing SDS-PAGE.

Target Details

Target:	NME1
Alternative Name:	NME1/NDKA (NME1 Products)
Background:	Background: NME1, also known as Nucleoside Diphosphate Kinase A (NDK-A), or NM23-H1, belongs to the NDK family. NM23-H1 is known to have a metastasis suppressive activity in many tumor cells. Recent studies have shown that the interacting proteins with NM23-H1 which mediate the cell proliferation, may act as modulators of the metastasis suppressor

Target Details

activity. The interacting proteins with NM23-H1 can be classified into 3 groups. The first group of proteins can be classified as upstream kinases of NM23-H1 such as CKI and Aurora-A/STK15. The second group of proteins acts as downstream effectors for the regulation of specific gene transcriptions, GTP-binding protein functions, and signal transduction in Erk signal cascade. The third group of proteins can be classified as bi-directionally influencing binding partners of NM23-H1. As a result, the interactions with NM23-H1 and binding partners have implications in the biochemical characterization involved in metastasis and tumorigenesis. NDKA is increased in human postmortem cerebrospinal fluid (CSF), a model of global brain insult, suggesting that measurement in CSF and, more importantly, in plasma may be useful as a biomarker of stroke. Additionally, NM23-H1 significantly reduces metastasis without effects on primary tumor size and was the first discovered metastasis suppressor gene.

Synonym: Nucleoside Diphosphate Kinase A, NDK A, NDP Kinase A, Granzyme A-Activated DNase, GAAD, Metastasis Inhibition Factor nm23, Tumor Metastatic Process-Associated Protein, nm23-H1, NME1, NDPKA, NM23,AWD,GAAD,NB,NBS,NDKA,NDPK-A,NM23-H1

Molecular Weight:	18 kDa
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NCBI Accession:	NP_000260
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Pathways:	Apoptosis , Nucleotide Phosphorylation , Carbohydrate Homeostasis , Ribonucleoside Biosynthetic Process
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Application Details

Restrictions:	For Research Use only
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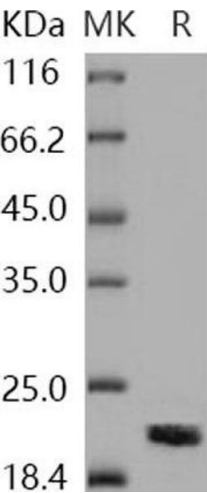
Handling

Format:	Frozen, Liquid
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Buffer:	Supplied as sterile PBS, pH 7.4
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Storage:	-20 °C
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Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
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Western Blotting

Image 1.