PRODUCT INFORMATION

Expression system E.coli

Domain 33-187aa

UniProt No. 000746

NCBI Accession No. NP_005000

Alternative Names

Nucleoside diphosphate kinase mitochondrial, Nucleoside diphosphate kinase, mitochondrial, NDK, NDPKD, nm23-H4, NM23D

PRODUCT SPECIFICATION

Molecular Weight

19.6 kDa (176aa) confirmed by MALDI-TOF

Concentration 0.5mg/ml (determined by Bradford assay)

Formulation Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.2M NaCl

Purity > 90% by SDS-PAGE

Tag His-Tag

Application SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

NME4, also known as nucleoside diphosphate kinase, mitochondrial, belongs to the NDK family. NME4 are ubiquitous enzymes that catalyze transfer of gamma-phosphates, via a phosphohistidine intermediate, between nucleoside and dioxynucleoside tri- and diphosphates. The enzymes are products of the nm23 gene family, which includes NME4. NME4 plays a major role in the synthesis of nucleoside triphosphates other than ATP. Recombinant human NME4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using



conventional chromatography.

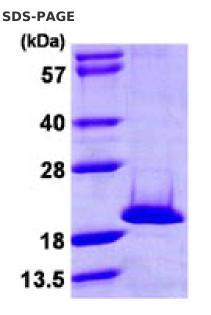
Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MPSWTRERTL VAVKPDGVQR RLVGDVIQRF ERRGFTLVGM KMLQAPESVL AEHYQDLRRK PFYPALIRYM SSGPVVAMVW EGYNVVRASR AMIGHTDSAE AAPGTIRGDF SVHISRNVIH ASDSVEGAQR EIQLWFQSSE LVSWADGGQH SSIHPA

General References

Milon L., et al. (1997) Hum. Genet. 99:550-557 Milon L., et al. (2000) Biol. Chem. 275:14264-14272

DATA



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.