

NME4, human recombinant

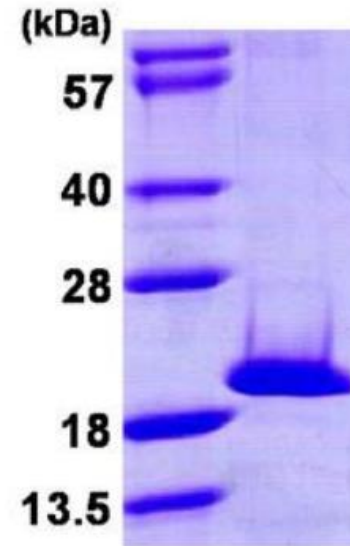
CATALOG #:	7826-100	100 µg
ALTERNATE NAMES:	Nucleoside diphosphate kinase, mitochondrial, NDK, NDPKD, nm23-H4, NM23D	
SOURCE:	E. Coli	
PURITY:	> 90% by SDS - PAGE	
MOL. WEIGHT:	19.6 kDa (176 aa, 33-187 aa + His Tag)	
FORM:	Liquid	
FORMULATION:	0.5 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, and 0.2 M NaCl	

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

BIOLOGICAL ACTIVITY: Specific activity is > 15 units/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.



15% SDS-PAGE (3µg)

Human Recombinant NME4

RELATED PRODUCTS:

- NME1, human recombinant (Cat. No. 7823-100)
- NME2, human recombinant (Cat. No. 7824-100)
- NME3, human recombinant (Cat. No. 7825-100)

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

