Recombinant human NME3 protein

Catalog Number: ATGP3260

PRODUCT INFORMATION

Expression system
E.coli

Domain
22-169aa

UniProt No.
Q13232

NCBI Accession No.
NP_002504

Alternative Names
Nucleoside diphosphate kinase 3, c371H6.2, DR-nm23, KIAA0516, NDPK-C, NDPKC, NM23-H3, NM23H3

PRODUCT SPECIFICATION

Molecular Weight
19.1 kDa (169aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 0.1M NaCl, 2mM DTT

Purity
> 95% by SDS-PAGE

Biological Activity
Specific activity is > 150unit/mg, and is defined as the amount of enzyme that convert 1.0 umole each of ATP and TDP to ADP and TTP per minute at pH 7.5 at 25C in a couple system with PK/LDH.

Tag
His-Tag

Application
Enzyme Activity,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
NME3, also known as, a potential suppressor of metastasis, is expressed at a much lower level in highly metastatic cells than in cells with lower metastatic potential. It is important for the synthesis of nucleoside triphosphates and may play a role in apoptosis induction and hematopoiesis. It is preferentially expressed during

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early stages of myeloid differentiation of highly purified CD34+ cells. Recombinant human NME3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

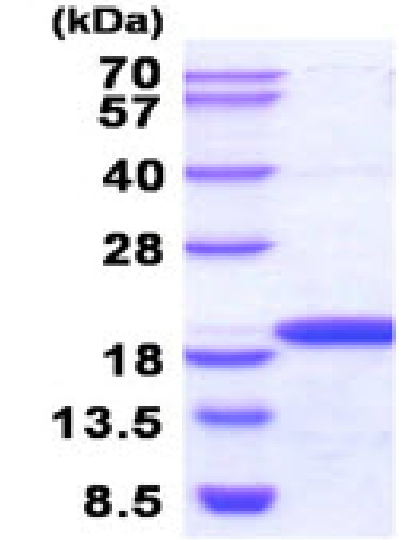
MGSSHHHHHH SSGLVPRGSH MERTFLAVKP DGVQRRLVGE IVRRFERKGF KLVALKLVQA SEELLREHYA ELRERPFYGR LVKYMASGPV VAMVWQGLDV VRTSRALIGA TNPADAPPGT IRGDFCIEVG KNLIHGSDSV ESARREIALW FRADELLCWE DSAGHWLYE

General References

Martinez R, et al. (1997). Cancer Res. 57: 1180-1187.
Masse K., et al. (2002). Gene., 296: 87-97

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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