# Human NME1 / NDKA / NM23-H1 Protein, His Tag

Catalog # NM1-H5147

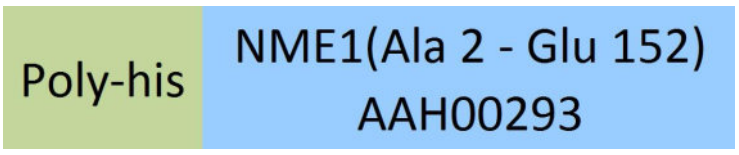
## Synonym

NME1,NDP kinase A,NDPA,GAAD,NM23-H1

## Source

Human NME1, His Tag (NM1-H5147) is expressed from E.coli cells. It contains AA Ala 2 - Glu 152 (Accession # AAH00293).
Predicted N-terminus: Met

## Molecular Characterization




This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 18.0 kDa. The protein migrates as 17-18 kDa under reducing (R) condition (SDS-PAGE).

## Endotoxin

Less than 1.0 EU per μg by the LAL method.

## Purity

>98% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

***For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***

## Storage

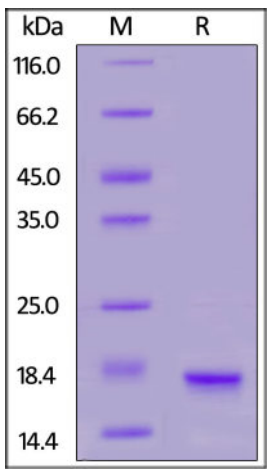
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

***Please avoid repeated freeze-thaw cycles.***

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE




Human NME1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 98%.

## Background

Nucleoside diphosphate kinase A, a member of the NDK family, is also known as NME1, NDP kinase A (NDPA), granzyme A-activated DNase (GAAD), metastasis inhibition factor nm23 (NM23-H1) and tumor metastatic process-associated protein. NME1 plays a major role in the synthesis of nucleoside triphosphates other than ATP. NME1 is also involved in cell proliferation, differentiation and development, signal transduction, G protein-coupled receptor endocytosis, and gene expression. Furthermore, NME1 is required for neural development including neural patterning and cell fate determination. During GZMA-mediated cell death, NME1 works in concert with TREX1. NME1 nicks one strand of DNA and TREX1 removes bases from the free 3' end to enhance DNA damage and prevent DNA end reannealing and rapid repair.

## References

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.