

## Product datasheet for PH320517

### NM23A (NME1) (NM\_198175) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | NME1 MS Standard C13 and N15-labeled recombinant protein (NP_937818)   |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC220517   |
| Predicted MW:                         | 19.5 kDa   |
| Protein Sequence:                     | <p>&gt;RC220517 representing NM_198175</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MVLLSTLGIVFQGEPPISSCDTGTMANCERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVGLKFMQASE<br/>           DLLKEHYVDLKDRPFFAGLVKYMHS GPVVAMVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRN<br/>           IIHGSDSVESAEKEIGLWFHPEELVDYTSCAQNWIYE</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Tag:                                  | C-Myc/DDK  |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method   |
| Labeling Method:                      | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine   |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3   |
| Storage:                              | Store at -80°C. Avoid repeated freeze-thaw cycles.   |
| Stability:                            | Stable for 3 months from receipt of products under proper storage and handling conditions.   |
| RefSeq:                               | <u>NP_937818</u>   |
| RefSeq Size:                          | 1031   |
| RefSeq ORF:                           | 531  |
| Synonyms:                             | AWD; GAAD; NB; NBS; NDKA; NDPK-A; NDPKA; NM23; NM23-H1   |
| Locus ID:                             | 4830   |
| UniProt ID:                           | <u>P15531</u>  |


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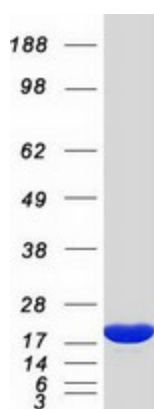
**Cytogenetics:** 17q21.33

**Summary:** This gene (NME1) was identified because of its reduced mRNA transcript levels in highly metastatic cells. Nucleoside diphosphate kinase (NDK) exists as a hexamer composed of 'A' (encoded by this gene) and 'B' (encoded by NME2) isoforms. Mutations in this gene have been identified in aggressive neuroblastomas. Two transcript variants encoding different isoforms have been found for this gene. Co-transcription of this gene and the neighboring downstream gene (NME2) generates naturally-occurring transcripts (NME1-NME2), which encodes a fusion protein comprised of sequence sharing identity with each individual gene product. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:** Metabolic pathways, Purine metabolism, Pyrimidine metabolism

### Product images:



Coomassie blue staining of purified NME1 protein (Cat# [TP320517]). The protein was produced from HEK293T cells transfected with NME1 cDNA clone (Cat# [RC220517]) using MegaTran 2.0 (Cat# [TT210002]).