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32-13341: NME4 Human, Active

Application :	Functional Assay
Alternative Name :	Nucleoside diphosphate kinase mitochondrial, Nucleoside diphosphate kinase, mitochondrial, NDK, NDPKD, nm23-H4, NM23D.

Description

Source: E.coli.
Sterile Filtered colorless solution.
Non-Metastatic Cells 4 or NME4, is a nucleoside diphosphate kinase located in the mitochondria, and is part of the NDK family of proteins. NME4 ais a very common enzyme that enhances transfer of gamma-phosphates, through a phosphohistidine as a intermediate, between dioxynucleoside tri- and diphosphates. NME4 is originated from the nm23 gene. NME4 has a crucial part in the creation of nucleoside triphosphates that are not ATP.
NME4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 176 amino acids (33-187a.a.) and having a molecular mass of 19.6kDa.NME4 is fused to a 21 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The NME4 solution (0.5mg/ml) contains 40% glycerol, 20mM Tris-HCl buffer (pH 8.0) and 0.2M NaCl.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MPSWTRERTL VAVKPDGVQR RLVGDVIQRF ERRGFTLVGM KMLQAPESVL AEHYQDLRRK PFYPALIRYM SSGPVVAMVW EGYNVVRASR AMIGHTDSAE AAPGTIRGDF SVHISRNVIH ASDSVEGAQR EIQLWFQSSE LVSWADGGQH SSIHPAÂ

Application Note

Specific activity is > 120unit/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.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.