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Datasheet for ABIN7549779

NME3 Protein (AA 1-169) (His tag)

Overview

Quantity:	1 mg
Target:	NME3
Protein Characteristics:	AA 1-169
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NME3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat NME3 Protein expressed in mammalien cells.
Sequence:	MICLVLTIFA NLFPAACTGA HERTFLAVKP DGVQRRLVGE IVRRFERKGF KLVALKLVQA SEELLREHYA ELRERPFYGR LVKYMASGPV VAMVWQGLDV VRTSRALIGA TNPADAPPGT IRGDFCIEVG KNLIHGSDSV ESARREIALW FRADELLCWE DSAGHWLYE Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalien cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.

Product Details

- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	NME3
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Alternative Name:	NME3 (NME3 Products)
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Background:	<p>Nucleoside diphosphate kinase 3 (NDK 3) (NDP kinase 3) (EC 2.7.4.6) (DR-nm23) (Nucleoside diphosphate kinase C) (NDPKC) (nm23-H3),FUNCTION: Catalyzes the phosphorylation of ribonucleosides and deoxyribonucleoside diphosphates, other than ATP, into the corresponding triphosphates with ATP as the major phosphate donor (PubMed:11277919, PubMed:30587587). The ATP gamma phosphate is transferred to the nucleoside diphosphate beta phosphate via a ping-pong mechanism, using a phosphorylated active-site intermediate. Through the catalyzed exchange of gamma-phosphate between di- and triphosphonucleosides participates in regulation of intracellular nucleotide homeostasis (PubMed:11277919, PubMed:30587587). Inhibits granulocyte differentiation (PubMed:7638209). May be required for ciliary function during renal development (By similarity). {ECO:0000250 UniProtKB:Q9PTF3, ECO:0000269 PubMed:11277919, ECO:0000269 PubMed:30587587, ECO:0000269 PubMed:7638209},, FUNCTION: Independently of its kinase activity, facilitates mitochondrial tethering prior to membrane fusion through its direct membrane-binding and hexamerization (PubMed:30587587, PubMed:37584589). Implicated in repair of both single- and double-stranded breaks in DNA through its association with the ribonucleotide reductase complex (RNR complex) via its interaction with the histone acetyltransferase KAT5, this interaction enables recruitment of NME3 at DNA damage sites where it plays a role in the repair</p>
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Target Details

of DNA, independently of its kinase activity (PubMed:37584589).
{ECO:0000269|PubMed:30587587, ECO:0000269|PubMed:37584589}.

Molecular Weight: 19.0 kDa

UniProt: [Q13232](#)

Pathways: [Nucleotide Phosphorylation, Ribonucleoside Biosynthetic Process](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months