Datasheet for ABIN7549709

NME5 Protein (AA 1-212) (His tag)

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Overview

Quantity:	1 mg
Target:	NME5
Protein Characteristics:	AA 1-212
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NME5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat NME5 Protein expressed in mammalien cells.
Sequence:	MEISMPPPQI YVEKTLAIIK PDIVDKEEEI QDIILRSGFT IVQRRKLRLS PEQCSNFYVE KYGKMFFPNL TAYMSSGPLV AMILARHKAI SYWLELLGPN NSLVAKETHP DSLRAIYGTD DLRNALHGSN DFAAAEREIR FMFPEVIVEP IPIGQAAKDY LNLHIMPTLL EGLTELCKQK PADPLIWLAD WLLKNNPNKP KLCHHPIVEE PY **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: • 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

Product Details

	transmembrane proteins. • 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
Grade:	custom-made

Target Details

Target:	NME5
Alternative Name:	NME5 (NME5 Products)
Background:	Nucleoside diphosphate kinase homolog 5 (NDK-H 5) (NDP kinase homolog 5) (3'-5' exonuclease NME5) (EC 3.1.-.-) (Inhibitor of p53-induced apoptosis-beta) (IPIA-beta) (Testis-specific nm23 homolog) (nm23-H5),FUNCTION: Functions as part of axonemal radial spoke complexes that play an important part in the motility of sperm and cilia. Does not seem to have nucleoside diphosphate kinase (NDPK) activity (PubMed:9742940). Confers protection from cell death by BAX and alters the cellular levels of several antioxidant enzymes including GPX5. May play a role in spermiogenesis by increasing the ability of late-stage spermatids to eliminate reactive oxygen species (By similarity). Exhibits a 3'-5' exonuclease activity with a preference for single-stranded DNA, suggesting roles in DNA proofreading and repair (PubMed:16313181). {ECO:0000250|UniProtKB:Q6DGQ8, ECO:0000250|UniProtKB:Q99MH5, ECO:0000269|PubMed:16313181, ECO:0000269|PubMed:9742940}.
Molecular Weight:	24.2 kDa
UniProt:	P56597
Pathways:	Nucleotide Phosphorylation, Ribonucleoside Biosynthetic Process, Negative Regulation of intrinsic apoptotic Signaling

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