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NME4 Protein (AA 33-186) (His tag)



Image



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Quantity:	1 mg
Target:	NME4
Protein Characteristics:	AA 33-186
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NME4 protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)
Product Details	
Sequence:	PWPQERTLVA VKPDGVQRRL VGTVIQRFER RGFKLVGMKM LQAPESILAE HYRDLQRKPF
	YPALISYMSS GPVVAMVWEG PNVVHISRAM IGHTDSTEAA PGTIRGDFSV HISRNVIHAS
	DSVDGAQREI ELWFQSSELL NWADGGHHSS CYPA
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Nme4 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade. 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 will ensure that you receive a correctly folded protein.

made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in bacterial culture:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target:	NME4
Alternative Name:	Nme4 (NME4 Products)
Background:	Major role in the synthesis of nucleoside triphosphates other than ATP. The ATP gamma
	phosphate is transferred to the NDP 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. Binds to anionic phospholipids, predominantly to cardiolipin, the binding inhibits
	its phosphotransfer activity. Acts as mitochondria-specific NDK, its association with cardiolipin-
	containing mitochondrial inner membrane is coupled to respiration suggesting that ADP locally
	regenerated in the mitochondrion innermembrane space by its activity is directly taken up via
	ANT ADP/ATP translocase into the matrix space to stimulate respiratory ATP regeneration.
	Proposed to increase GTP-loading on dynamin-related GTPase OPA1 in mitochondria. In vitro
	can induce liposome cross-linking suggesting that it can cross-link inner and outer membranes
	to form contact sites, and promotes intermembrane migration of anionic phosphoplipids.
	Promotes the redistribution of cardiolipin between the mitochondrial inner membrane and outer
	membrane which is implicated in pro-apoptotic signaling (By similarity).
	{ECO:0000250 UniProtKB:000746}.
Molecular Weight:	18.2 kDa Including tag.
UniProt:	Q9WV84
Pathways:	Nucleotide Phosphorylation, Ribonucleoside Biosynthetic Process
Application Datails	
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	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 gurantee
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-80 °C

Store at -80°C.

Storage:

Storage Comment:

Expiry Date:

Unlimited (if stored properly)

Images

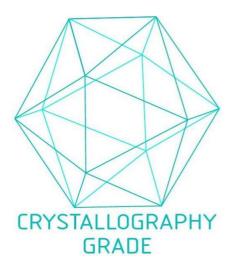


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process