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NOXA Protein (AA 1-54) (His tag)



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Quantity:	1 mg	
Target:	NOXA (PMAIP1)	
Protein Characteristics:	AA 1-54	
Origin:	Human	
Source:	Escherichia coli (E. coli)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	tion tag / Conjugate: This NOXA protein is labelled with His tag.	
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)	
Product Details		
Sequence:	MPGKKARKNA QPSPARAPAE LEVECATQLR RFGDKLNFRQ KLLNLISKLF CSGT	
	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. Human PMAIP1 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. 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.	

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 concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

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

NOXA (PMAIP1)

Endotoxin Level:

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

Grade:

Target:

Crystallography grade

Target Details

Alternative Name:	PMAIP1 (PMAIP1 Products)
Background:	Promotes activation of caspases and apoptosis. Promotes mitochondrial membrane changes
	and efflux of apoptogenic proteins from the mitochondria. Contributes to p53/TP53-dependent
	apoptosis after radiation exposure. Promotes proteasomal degradation of MCL1. Competes
	with BAK1 for binding to MCL1 and can displace BAK1 from its binding site on MCL1 (By
	similarity). Competes with BIM/BCL2L11 for binding to MCL1 and can displace BIM/BCL2L11
	from its binding site on MCL1. {ECO:0000250, ECO:0000269 PubMed:10807576,

Target Details

Expiry Date:

Target Details		
	ECO:0000269 PubMed:15694340, ECO:0000269 PubMed:15705586,	
	ECO:0000269 PubMed:17374615, ECO:0000269 PubMed:17389404}.	
Molecular Weight:	7.0 kDa Including tag.	
UniProt:	Q13794	
Pathways:	p53 Signaling, Positive Regulation of Endopeptidase Activity, Regulation of Carbohydrate	
	Metabolic Process, Positive Regulation of Response to DNA Damage Stimulus	
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.	
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be	
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to	
	increase solubility. We will discuss all possible options with you in detail to assure that you	
	receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	

Unlimited (if stored properly)

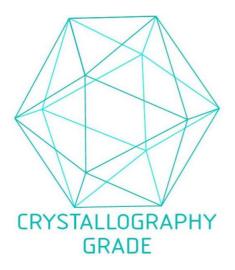


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process