Datasheet for ABIN3112957 MUC1 Protein (AA 1098-1255) (rho-1D4 tag)

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Quantity:	1 mg	
Target:	MUC1	
Protein Characteristics:	AA 1098-1255	
Origin:	Human	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This MUC1 protein is labelled with rho-1D4 tag.	
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)	
Product Details		
Sequence:	SVVVQLTLAF REGTINVHDV ETQFNQYKTE AASRYNLTIS DVSVSDVPFP FSAQSGAGVP	
	GWGIALLVLV CVLVALAIVY LIALAVCQCR RKNYGQLDIF PARDTYHPMS EYPTYHTHGR	
	YVPPSSTDRS PYEKVSAGNG GSSLSYTNPA VAATSANL	
	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 MUC1 Protein (raised in Insect Cells) 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.	

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	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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect	
	cells:	
	1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with	
	different detergents (detergent screen). Samples are analyzed by Western blot.	
	2. The best performing detergent is used for solubilization and the proteins are purified via their the 1D4 tag via two rho1D4 antibady columns; one DTT registeret, the other one pat, Eluster	
	rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.	
	3. Protein containing fractions of the best purification are subjected to second purification step	
	through size exclusion chromatograph. 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:	Protein is endotoxin-free.	
Grade:	Crystallography grade	
Target Details		
Target:	MUC1	
Alternative Name:	MUC1 (MUC1 Products)	
Background:	The alpha subunit has cell adhesive properties. Can act both as an adhesion and an anti-	
	adhesion protein. May provide a protective layer on epithelial cells against bacterial and enzym	

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## Target Details

	attack., The beta subunit contains a C-terminal domain which is involved in cell signaling,
	through phosphorylations and protein-protein interactions. Modulates signaling in ERK, SRC
	and NF-kappa-B pathways. In activated T-cells, influences directly or indirectly the Ras/MAPK
	pathway. Promotes tumor progression. Regulates TP53-mediated transcription and determines
	cell fate in the genotoxic stress response. Binds, together with KLF4, the PE21 promoter
	element of TP53 and represses TP53 activity.
Molecular Weight:	18.2 kDa Including tag.
UniProt:	P15941
Pathways:	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.
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.	
Expiry Date:	Unlimited (if stored properly)	

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