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Datasheet for ABIN3086868 R3HDM4 Protein (AA 1-268) (Strep Tag)





Overview

Quantity:	1 mg
Target:	R3HDM4
Protein Characteristics:	AA 1-268
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This R3HDM4 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

TQYLL TLLETDGGLP GLEDGDLAPP ASPGIFAEAC NNATYVEVWN RYLEDE GRSKARRRGP GRGEDRRRED PAYTPRECFQ RISRRLRAVL RLLRF FSVSPQAVYT AMLDNSFERL LLHAVCQYMD LISASADLEG PPGLLL SAYLEQHS		
RLLRF FSVSPQAVYT AMLDNSFERL LLHAVCQYMD LISASADLEG		
PPGLLL SAYLEQHS		
Sequence without tag. The proposed Strep-Tag is based on experience s 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.
from design to production - by highly experienced protein experts.		
vith ALiCE® and purified by multi-step, protein-specific process to ensure		
modification.		

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- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):	
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.	
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)	

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Product Details

Grade:

Crystallography grade

Target Details

Target:	R3HDM4		
Alternative Name:	R3HDM4 (R3HDM4 Products)		
Background:	R3H domain-containing protein 4		
Molecular Weight:	30.4 kDa		
UniProt:	Q96D70		
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:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from		
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce		
	even the most difficult-to-express proteins, including those that require post-translational		
	modifications.		
	During lysate production, the cell wall and other cellular components that are not required for		
	protein production are removed, leaving only the protein production machinery and the		
	mitochondria to drive the reaction. During our lysate completion steps, the additional		
	components needed for protein production (amino acids, cofactors, etc.) are added to produce		
	something that functions like a cell, but without the constraints of a living system - all that's		
	needed is the DNA that codes for the desired protein!		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,		
	please contact us.		
	Avoid repeated freeze-thaw cycles.		
Handling Advice:			

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 Storage Comment:
 Store at -80°C.

 Expiry Date:
 Unlimited (if stored properly)

Images

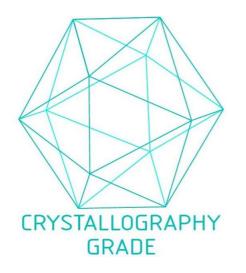


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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