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MUS81 Protein (AA 1-551) (Strep Tag)



Image



Overview

Quantity:	1 mg
Target:	MUS81
Protein Characteristics:	AA 1-551
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MUS81 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MAAPVRLGRK RPLPACPNPL FVRWLTEWRD EATRSRRRTR FVFQKALRSL RRYPLPLRSG KEAKILQHFG DGLCRMLDER LQRHRTSGGD HAPDSPSGEN SPAPQGRLAE VQDSSMPVPA QPKAGGSGSY WPARHSGARV ILLVLYREHL NPNGHHFLTK EELLQRCAQK SPRVAPGSAR PWPALRSLLH RNLVLRTHQP ARYSLTPEGL ELAQKLAESE GLSLLNVGIG PKEPPGEETA VPGAASAELA SEAGVQQQPL ELRPGEYRVL LCVDIGETRG GGHRPELLRE LQRLHVTHTV RKLHVGDFVW VAQETNPRDP ANPGELVLDH IVERKRLDDL CSSIIDGRFR EQKFRLKRCG LERRVYLVEE HGSVHNLSLP ESTLLQAVTN TQVIDGFFVK RTADIKESAA YLALLTRGLQ RLYQGHTLRS RPWGTPGNPE SGAMTSPNPL CSLLTFSDFN AGAIKNKAQS VREVFARQLM QVRGVSGEKA AALVDRYSTP ASLLAAYDAC ATPKEQETLL STIKCGRLQR NLGPALSRTL SQLYCSYGPL T

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.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- 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®):

1. 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.
>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Crystallography grade
MUS81
MUS81 (MUS81 Products)
Crossover junction endonuclease MUS81 (EC 3.1.22),FUNCTION: Interacts with EME1 and
EME2 to form a DNA structure-specific endonuclease with substrate preference for branched
DNA structures with a 5'-end at the branch nick. Typical substrates include 3'-flap structures,
replication forks and nicked Holliday junctions. Plays an essential role in mitosis for the
processing of stalled or collapsed replication forks (PubMed:28575661).
{ECO:0000269 PubMed:11741546, ECO:0000269 PubMed:12374758,
ECO:0000269 PubMed:12686547, ECO:0000269 PubMed:12721304,
ECO:0000269 PubMed:14617801, ECO:0000269 PubMed:15805243,
ECO:0000269 PubMed:17289582, ECO:0000269 PubMed:19595721,
ECO:0000269 PubMed:19596235, ECO:0000269 PubMed:28575661}.
61.2 kDa
Q96NY9
DNA Damage Repair
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.
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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.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

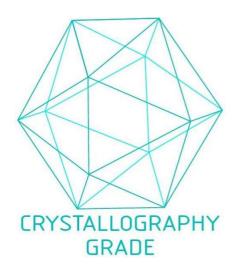


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process