

Datasheet for ABIN7554644
MUS81 Protein (AA 1-551) (His tag)



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Overview

Quantity:	1 mg
Target:	MUS81
Protein Characteristics:	AA 1-551
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MUS81 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant MUS81 Protein expressed in mammalian cells.
Sequence:	<p>MAAPVRLGRK RPLPACPNPL FVRWLTEWRD EATRSRRRTR FVFQKALRSL RRYPLPLRSG KEAKILQHFG DGLCRMLDER LQRHRTSGGD HAPDPSGEN SPAPQGRLAE VQDSSMPVPA QPKAGGSGSY WPARHSGARV ILLVLYREHL NPNGHFFLTK EELLQRCAQK SPRVAPGSAR PWPALRSLH RNLVLRTHQP ARYSLTPEGL ELAQKLAESE GLSLLNVGIG PKEPPGEETA VPGAASAELA SEAGVQQQPL ELRPGEYRVL LCVDIGETRG GGHRPELLRE LQRLHVHTTV 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 Purification-Tag is based on experiences 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.</p>

Product Details

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: MUS81

Alternative Name: MUS81 ([MUS81 Products](#))

Background: 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}.

Molecular Weight: 61.2 kDa

Target Details

UniProt: [Q96NY9](#)

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months
