Datasheet for ABIN3091956

# MCC Protein (AA 1-829) (Strep Tag)

Go to Product page

## Overview

| | |
|---|---|
| Quantity: | 250 µg |
| Target: | MCC |
| Protein Characteristics: | AA 1-829 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This MCC protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

## Product Details

| | |
|---|---|
| Brand: | AliCE® |
| Sequence: | MNSGVAMKYG NDSSAELSEL HSAALASLKG DIVELNKRLQ QTERERDLLE KKLAKAQCEQ SHLMREHEDV QERTTLRYEE RITELHSVIA ELNKKIDRLQ GTTIREEDEY SELRSELSQS QHEVNEDSRS MDQDQTSVSI PENQSTMVTA DMDNCSDLNS ELQRVLTGLE NVVCGRKKSS CSLSVAEVDK HIEQLTTASE HCDLAIKTVE EIEGVLGRDL YPNLAEERSR WEKELAGLRE ENESLTAMLC SKEEELNRTK ATMNAIREER DRLRRRVREL QTRLQSVQAT GPSSPGRLTS TNRPINPSTG ELSTSSSSND IPIAKIAERV KLSKTRSESS SSDRPVLGSE ISSIGVSSSV AEHLAHSLQD CSNIQEIFQT LYSHGSAISE SKIREFEVET ERLNSRIEHL KSQNDLLTIT LEECKSNAER MSMLVGKYES NATALRLALQ YSEQCIEAYE LLLALAESEQ SLILGQFRAA GVGSSPGDQS GDENITQMLK RAHDCRKTAE NAAKALLMKL DGSCGGAFAV AGCSVQPWES LSSNSHTSTT SSTASSCDTE FTKEDEQRLK DYIQQLKNDR AAVKLTMLEL ESIHIDPLSY DVKPRGDSQR LDLENAVLMQ ELMAMKEEMA ELKAQLYLLE KEKKALELKL STREAQEQAY |

| | |
|---|---|
| | LVHIEHLKSE VEEQKEQRMR SLSSTSSGSK DKPGKECADA ASPALSLAEL RTTCSENELA AEFTNAIRRE KKLKARVQEL VSALERLTKS SEIRHQQSAE FVNDLKRANS NLVAAYEKAK KKHQNKLKKL ESQMMAMVER HETQVRMLKQ RIALLEEENS RPHTNETSL<br>**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:<br>• Made in Germany - from design to production - by highly experienced protein experts.<br>• Protein expressed with ALiCE® and purified in one-step affinity chromatography<br>• These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br>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.<br><br>Expression System:<br>• 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.<br>• 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!<br><br>Concentration:<br>• The concentration of our recombinant proteins is measured using the absorbance at 280nm.<br>• The protein's absorbance will be measured against its specific reference buffer.<br>• We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein. |
| Purification: | One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression |

## Product Details

| | |
|---|---|
| | System (AliCE®). |
| Purity: | > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC). |
| Grade: | custom-made |

## Target Details

| | |
|---|---|
| Target: | MCC |
| Alternative Name: | MCC (MCC Products) |
| Background: | Colorectal mutant cancer protein (Protein MCC),FUNCTION: Candidate for the putative colorectal tumor suppressor gene located at 5q21. Suppresses cell proliferation and the Wnt/b-catenin pathway in colorectal cancer cells. Inhibits DNA binding of b-catenin/TCF/LEF transcription factors. Involved in cell migration independently of RAC1, CDC42 and p21-activated kinase (PAK) activation (PubMed:18591935, PubMed:19555689, PubMed:22480440). Represses the beta-catenin pathway (canonical Wnt signaling pathway) in a CCAR2-dependent manner by sequestering CCAR2 to the cytoplasm, thereby impairing its ability to inhibit SIRT1 which is involved in the deacetylation and negative regulation of beta-catenin (CTNB1) transcriptional activity (PubMed:24824780). {ECO:0000269\|PubMed:18591935, ECO:0000269\|PubMed:19555689, ECO:0000269\|PubMed:22480440, ECO:0000269\|PubMed:24824780}. |
| Molecular Weight: | 93.0 kDa |
| UniProt: | P23508 |

## 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.<br>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 |

## Application Details

| | |
|---|---|
| | 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.<br>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.** |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |