

Datasheet for ABIN3096257

UIMC1 Protein (AA 1-719) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	UIMC1
Protein Characteristics:	AA 1-719
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UIMC1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MPRRKKKVKE VSESRNLEKK DVETTSSVSV KRKRRLDAF IVISDSGEE PKEENGLQKT</p> <p>KTKQSNRAKC LAKRKIAQMT EEEQFALALK MSEQEADEVN SQEEEEELL RKAIAESLNS</p> <p>CRPSDASATR SRPLATGPSS QSHQEKT TDS GLTEGIWQLV PPSLFKGS HI SQGNEAEERE</p> <p>EPWDHTEKTE EEPVSGSSGS WDQSSQPVFE NVNVKSFDRC TGHS AEHTQC GKPQESTGRG</p> <p>SAFLKAVQGS GDTSRHCLPT LADAKGLQDT GGT VNYFWGI PFCPDGVDPN QYTKVILCQL</p> <p>EVYQKSLKMA QRQLLNKKGF GEPVLP RPSS LIQNECGQGE QASEKNECIS EDMGDEDKEE</p> <p>RQESRASDWH SKTKDFQESS IKSLKEKLLL EEEPTTSHGQ SSQGIVEETS EEGNSVPASQ</p> <p>SVAALTSKRS LVLMPESAE EITVCPETQL SSSETFDLER EVSPGSRDIL DGVRIIMADK</p> <p>EVGNKEDA EK EVAISTFSSS NQVSCPLCDQ CFPPTKIERH AMYCNGLMEE DTVL TRRQKE</p> <p>AKTKSDSGTA AQTSLDIDKN EKCYLCKSLV PFREYQCHVD SCLQLAKADQ GDGPEGSGRA</p> <p>CSTVEGKWQQ RLKNPKEKGH SEGRLLSFLE QSEHKTSADAD IKSSETGAFR VPSPGMEEAG</p>

CSREMQSSFT RRDNLNESPVK SFVSISEATD CLVDFKKQVT VQPGSRTRTK AGRGRRRK

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 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!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- 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 System (ALiCE®).

Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: UIMC1

Alternative Name: UIMC1 ([UIMC1 Products](#))

Background: BRCA1-A complex subunit RAP80 (Receptor-associated protein 80) (Retinoid X receptor-interacting protein 110) (Ubiquitin interaction motif-containing protein 1),FUNCTION: Ubiquitin-binding protein (PubMed:24627472). Specifically recognizes and binds 'Lys-63'-linked ubiquitin (PubMed:19328070, Ref.38). Plays a central role in the BRCA1-A complex by specifically binding 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesions sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at double-strand breaks (DSBs). The BRCA1-A complex also possesses deubiquitinase activity that specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX. Also weakly binds monoubiquitin but with much less affinity than 'Lys-63'-linked ubiquitin. May interact with monoubiquitinated histones H2A and H2B, the relevance of such results is however unclear in vivo. Does not bind Lys-48'-linked ubiquitin. May indirectly act as a transcriptional repressor by inhibiting the interaction of NR6A1 with the corepressor NCOR1. {ECO:0000269|PubMed:12080054, ECO:0000269|PubMed:17525340, ECO:0000269|PubMed:17525341, ECO:0000269|PubMed:17525342, ECO:0000269|PubMed:17621610, ECO:0000269|PubMed:17643121, ECO:0000269|PubMed:19015238, ECO:0000269|PubMed:19202061, ECO:0000269|PubMed:19261748, ECO:0000269|PubMed:19328070, ECO:0000269|PubMed:24627472, ECO:0000269|Ref.38}.

Molecular Weight: 79.7 kDa

UniProt: [Q96RL1](#)

Pathways: [DNA Damage Repair](#), [Nuclear Hormone Receptor Binding](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

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.

Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months