

Datasheet for ABIN3091511

CEP97 Protein (AA 1-865) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	CEP97
Protein Characteristics:	AA 1-865
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CEP97 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAVARVDAAL PPGEQSVVNW SGQGLQKLGP NLPCEADIHT LILDKNQIIK LENLEKCKRL IQLSVANNRL VRMMGVAKLT LLRVNLPHN SIGCVEGLKE LVHLEWLNLA GNNLKAMEQI NSCTALQHLD LSDNNISQIG DLSKLVSLKT LLLHGNIIITS LRMAPAYLPR SLAILSLAEN EIRDLNEISF LASLTELEQL SIMNNPCVMA TPSIPGFDYR PYIVSWCLNL RVLDGYVISQ KESLKAEWLY SQGKGRAYRP GQHIQLVQYL ATVCPLTSTL GLQTAEDAKL EKILSKQRFH QRQLMNQSQN EELSPLVPVE TRASLIPEHS SPVQDCQISQ ESEPIQVNS WVGINSNDDQ LFAVKNNFPA SVHTTRYSRN DLHLEDIQT EDKLNCSLLS SESTFMPVAS GLSPLSPTVE LRLQGINLGL EDDGVADES KGLSQVLDK EEEQPLWAAN ENSVQMMRSE INTEVNEKAG LLPCPEPTII SAILKDDNHS LTFPESTEQ KQSDIKKPEN TQPENKETIS QATSEKLPMI LTQRSVALGQ DKVALQKLND AATKLQACWR GFYARNYNPQ AKDVRYEIRL RRMQEHIVCL TDEIRRLRKE RDEERIKKFV QEEAFRFLWN QVRSLLQVWQQ TVDQRLSSWH TDVPPISSTL

VPSKHPLFTQ SQESSCDQNA DWFIASDVAP QEKSLPEFPD SGFHSSLTEQ VHSLQHSLDF
EKSSTEGSES SIMGNSIDTV RYGKESDLGD VSEEHGEWVK ESSNNEQDNS LLEQYLTSVQ
QLEDADERTN FDTETRDSKL HIACFPVQLD TLSDGASVDE SHGISPPLQG EISQTQENSK
LNAEVQGQQP ECDSTFQLLH VGVTV

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.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
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Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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Grade:	custom-made
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Target Details

Target:	CEP97
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Alternative Name:	CEP97 (CEP97 Products)
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Background:	Centrosomal protein of 97 kDa (Cep97) (Leucine-rich repeat and IQ domain-containing protein 2),FUNCTION: Acts as a key negative regulator of ciliogenesis in collaboration with CCP110 by capping the mother centriole thereby preventing cilia formation (PubMed:17719545, PubMed:30375385). Required for recruitment of CCP110 to the centrosome (PubMed:17719545). {ECO:0000269 PubMed:17719545, ECO:0000269 PubMed:30375385}.
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Molecular Weight:	97.0 kDa
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UniProt:	Q8IW35
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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.
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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:	The buffer composition is at the discretion of the manufacturer. 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