Datasheet for ABIN3135711

OCRL Protein (AA 1-900) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	OCRL
Protein Characteristics:	AA 1-900
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This OCRL protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MEPRLPIGAQ PLAMVAGLEM KGPLREPCVL TLARRNGQYE LIIQLHGKEQ HVQDIIPINS HFRCVQEAEE TLLIDIASNS GCKIRVQGDW TRERHFEIPD EERCLKFLSE VLEAQEAQSQ LLVPEQKDSS SWYQKLDTMD KPAYSGLLGF EDNFSSLDLD KKMNTQNPRS GSHREPPPPP SSSTRMLSRE KEASNKEQPK VTNTMRKLFV PNTQTGQREG LIKHILTKRE KEYVNIQSFR FFVGTWNVNG QSPDSSLEPW LDCDPNPPDI YCIGFQELDL STEAFFYFES VKEQEWSLAV ERGLPSKAKY RKVQLVRLVG MMLLIFARKD QCQYIRDVAT ETTGTGIMGK MGNKGGVAVR FVFHNTTFCI VNSHLAAHVE EFERRNQDYK DICARMTFSV PNQTVPQVNI MKHDVVIWLG DLNYRLCMPD ASEVKSLINK NELHKLLKFD QLNIQRTQKK AFADFNEGEI NFVPTYKYDS KTDRWDSSGK CRVPAWCDRI LWRGINVNQL HYRSHMELKT SDHKPVSALF HIGVKVVDER RYRKVFEDIV RIMDRMENDF LPSLELSRRE FFFENVKFRQ LQKEKFQISN NGQVPCHFSF IPKLNDSQYC KPWLRAEPFE GYLEPNETLD ISLDVYVSKD SVTILNSGED KIEDILVLHL

DRGKDYFLTI GGNYLPSCFG TSLEALCRMK RPIREVPVTK LIDLEEDSYL EKEKSLLQMV PLDEGTSERP LQVPKEIWLL VDHLFKYACH QEDLFQTPGM QEELQQIIDC LDTSIPETIP GNNHSVAEAL LIFLEALPEP VICYELYQRC LDSAHDPRIC KQVISQLPRC HRNVFRYLMA FLRELLKFSD YNNINTNMIA TLFSSLLLRP PPNLMTRQTP NDRQHAIQFL LVFLLGNEED

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

Target Details

Target:	OCRL
Alternative Name:	Ocrl (OCRL Products)
Background:	Inositol polyphosphate 5-phosphatase OCRL (EC 3.1.3.36) (EC 3.1.3.56) (Inositol polyphosphate 5-phosphatase OCRL-1) (Phosphatidylinositol 3,4,5-triphosphate 5-phosphatase) (EC 3.1.3.86),FUNCTION: Catalyzes the hydrolysis of the 5-position phosphate of phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2) and phosphatidylinositol-3,4,5-bisphosphate (PtdIns(3,4,5)P3), with the greatest catalytic activity towards PtdIns(4,5)P2. Able also to hydrolyze the 5-phosphate of inositol 1,4,5-trisphosphate and of inositol 1,3,4,5-tetrakisphosphate. Regulates traffic in the endosomal pathway by regulating the specific pool of phosphatidylinositol 4,5-bisphosphate that is associated with endosomes. Involved in primary cilia assembly. Acts as a regulator of phagocytosis, hydrolyzing PtdIns(4,5)P2 to promote phagosome closure, through attenuation of PI3K signaling. {ECO:0000250|UniProtKB:Q01968}.
Molecular Weight:	104.3 kDa
UniProt:	Q6NVF0
Pathways:	Inositol Metabolic Process

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. During lysate production, the cell wall and other cellular components that are not required for

Application Details

	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. 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