Datasheet for ABIN3095850

TECPR1 Protein (AA 1-1165) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TECPR1
Protein Characteristics:	AA 1-1165
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TECPR1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MPNSVLWAVD LFGRVYTLST AGQYWEMCKD SQLEFKRVSA TTQCCWGIAC DNQVYVYVCA SDVPIRRREE AYENQRWNPM GGFCEKLLLS DRWGWSDVSG LQHRPLDRVA LPSPHWEWES DWYVDENFGG EPTEKGGWTY AIDFPATYTK DKKWNSCVRR RKWIRYRRYK SRDIWAKIPS KDDPKELPDP FNDLSVGGWE ITEEPVGRLS VWAVSLQGKV WYREDVSHSN PEGSSWSLLD TPGEVVQISC GPHDLLWATL WEGQALVREG INRSNPKGSS WSIVEPPGSE NGVMHISVGV SVVWAVTKDW KVWFRRGVNS HNPCGTSWIE MVGEMTMVNV GMNDQVWGIG CEDRAVYFRQ GVTPSELSGK TWKAIIAARE CDRSHSGSSS SLLSAGCFFG DEVRGSGESA PSDTDASSEV ERPGPGQILP AEPLDDSKNA TGNSASGLGA GRTAEDTVED ACPAEGSREA RPNTHPGPAP TPAELPWTNI DLKEAKKVPS HSAAGFPETT SLSSLGLLPL GLEEPYGVDD HPLWAWVSGG GCVVEACAMP RWFTVQAGLS SSVHMLSLSI TPAQTAAWRK QIFQQLTERT KRELENFRHY EQAVEQSVWV KTGALQWWCD WKPHKWVDVR LALEQFTGHD GVRDSILFIY YVVHEEKKYI

HIFLNEVVAL VPVLNETKHS FALYTPERTR QRWPVRLAAA TEQDMNDWLA LLSLSCCESR KVQGRPSPQA IWSITCKGDI FVSEPSPDLE AHEHPLPCDQ MFWRQMGGHL RMVEANSRGV VWGIGYDHTA WVYTGGYGGG CFQGLASSTS NIYTQSDVKC VHIYENQRWN PVTGYTSRGL PTDRYMWSDA SGLQECTKAG TKPPSLQWAW VSDWFVDFSV PGGTDQEGWQ YASDFPASYH GSKTMKDFVR RRCWARKCKL VTSGPWLEVP PIALRDVSII PESPGAEGSG HSIALWAVSD KGDVLCRLGV SELNPAGSSW LHVGTDQPFA SISIGACYQV WAVARDGSAF YRGSVYPSQP AGDCWYHIPS PPRQRLKQVS AGQTSVYALD ENGNLWYRQG ITPSYPQGSS WEHVSNNVCR VSVGPLDQVW VIANKVQGSH SLSRGTVCHR TGVQPHEPKG HGWDYGIGGG WDHISVRANA TRAPRSSSQE QEPSAPPEAH GPVCC

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!

Product Details

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

Target Details

Target:	TECPR1
Alternative Name:	TECPR1 (TECPR1 Products)
Background:	Tectonin beta-propeller repeat-containing protein 1,FUNCTION: Tethering factor involved in autophagy. Involved in autophagosome maturation by promoting the autophagosome fusion with lysosomes: acts by associating with both the ATG5-ATG12 conjugate and phosphatidylinositol-3-phosphate (PtdIns(3)P) present at the surface of autophagosomes. Also involved in selective autophagy against bacterial pathogens, by being required for phagophore/preautophagosomal structure biogenesis and maturation. {ECO:0000269|PubMed:21575909, ECO:0000269|PubMed:22342342}.
Molecular Weight:	129.7 kDa
UniProt:	Q7Z6L1

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

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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