Datasheet for ABIN3134993

LMTK2 Protein (AA 1-1471) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	LMTK2
Protein Characteristics:	AA 1-1471
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LMTK2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MPGPPASPPP PMLLLLLLLT VGCARAAPLP QTGAGEVPVV EVPSLFVILS VCSLLILIVL IANCVSCCKD PEIDFKEFED NFDDEIDFTP PAEDTPSIQS PAEVFTLSVP NISLPAPSQF QASVEGLKSQ VARHSLNYIQ EIGSGWFGKV LLGETYTGTS VARVIVKELK VSASPKEQDT FLKSGEPYYI LQHPNVLQCV GQCVEAIPYL LVFEFCDLGD LKAYLHNEQE HVRGDSQTML LQRMACEIAA GLAAMHKLHF LHSDLALRNC YLTSDLNVKV GDYGIGFSRY KEDYIETDDK KVFPLRWTAP ELVTSFQDRL LTADQTKYSN IWSLGVTLWE LFNNAAQPYA NLSDLDVLNQ VIRERDMKLP KPQLEQPYSD RWYEVLQFCW LPPDKRPAAE DVHRLLTYLR MQSQRDSEVD FEQQWTALKP DTNSRDASSS AAFPILDHFA RDRLGREMEE VLTVTETSQG LSFEYVWEAA KHDHFDEQGR GHPDEALSYS SMFFPVEVFE NSLSDPGPGK QDDSGQEVPV RAPGVVPVFD AHNLSVGSDY YIQLEEKSSS NLGLDPPALL TTEVDKLERA GAEEPRTEED FFQSSAHPKE ASSTEDSRAT SIPGSPFNLF SDLDKADDLP SHQKIFDLME LNGVQADFKP AILSSSLDDP

KDTCQSDKEK PHKLLDQGPL CLSESLLHQD HFDPLSVQEL SENFLFLQEK NLLKGSLTTK EQVSDLQTEL KNAGFTSALL ESPQRGSESS ELEFLENTLD FPLSQGDTRG QNEGAGVRRH SGTSPQASPA LLTEEGSPTA PTDPILKPEE TKSFRDVRVP EDSICLELGP DPVTVGVEIP ATDAKTLDGG NRPPDVTCQS KEALSLTNRH PILVNDITAQ GSVESCLPES RQDLQNEPFS EDPLSVSSLE KHSEAAETLN QLNSKAAPED AALASALSSD STSQDSLLED SLSTPIPTSE QSVETPDSLD SVDVREALLE SLGSHTPRKL LPPDKPADSG YETENLESPE WTLHPAPEGT ADSDAAAAGD SGHSSLPPNP VIVISDAGDG HRGAEGPPQS FTLGPQSSYR DSAYFSDNDS EPDKKPEEVP GTSANALVLV KGQSPPESVV PEESSDVREG CLEAPQDKPD QSRVSTLQNS CHSELQETLQ PTPADASRES CPVNDEASSP LSLLNSEPSS CDDLDTQEDR PCTLASTGTN TNELLAYMSS TLDKSLPSHL ESSKLKEPDI EGKYLGKLCV SGMLDLSEDG MDADEEDENS DDSDEDLRAF NLHSLSSESE DDTEHPVPII VSNDDGRHLR SLLKPSAAEA IEQLPEDWKK EKKAVTFFDD VTVYLFDQET PTKELGHCGG EAHGPGPSSP AASSSSPYLG RCMNSESSTD EEGGGFEWDD DFSPDPFMSK TTSLLGSKPS LQTSKYFSPP PPARSAEQSW PHVSPCSRFS ISPANIASFS LTHLTDSDIE QGGSSEDGDK D

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

Product 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!

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:	LMTK2
Alternative Name:	Lmtk2 (LMTK2 Products)
Background:	Serine/threonine-protein kinase LMTK2 (EC 2.7.11.1) (Brain-enriched kinase) (Lemur tyrosine kinase 2),FUNCTION: Phosphorylates PPP1C, phosphorylase b and CFTR. {ECO:0000250}.
Molecular Weight:	160.5 kDa
UniProt:	Q3TYD6
Pathways:	RTK Signaling, Neurotrophin Signaling Pathway

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

Application Details

	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!
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