Datasheet for ABIN3093014

IBTK Protein (AA 1-1353) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	IBTK
Protein Characteristics:	AA 1-1353
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IBTK protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSSPMPDCTS KCRSLKHALD VLSVVTKGSE NQIKAFLSSH CYNAATIKDV FGRNALHLVS SCGKKGVLDW LIQKGVDLLV KDKESGWTAL HRSIFYGHID CVWSLLKHGV SLYIQDKEGL SALDLVMKDR PTHVVFKNTD PTDVYTWGDN TNFTLGHGSQ NSKHHPELVD LFSRSGIYIK QVVLCKFHSV FLSQKGQVYT CGHGPGGRLG HGDEQTCLVP RLVEGLNGHN CSQVAAAKDH TVVLTEDGCV YTFGLNIFHQ LGIIPPPSSC NVPRQIQAKY LKGRTIIGVA AGRFHTVLWT REAVYTMGLN GGQLGCLLDP NGEKCVTAPR QVSALHHKDI ALSLVAASDG ATVCVTTRGD IYLLADYQCK KMASKQLNLK KVLVSGGHME YKVDPEHLKE NGGQKICILA MDGAGRVFCW RSVNSSLKQC RWAYPRQVFI SDIALNRNEI LFVTQDGEGF RGRWFEEKRK SSEKKEILSN LHNSSSDVSY VSDINSVYER IRLEKLTFAH RAVSVSTDPS GCNFAILQSD PKTSLYEIPA VSSSSFFEEF GKLLREADEM DSIHDVTFQV GNRLFPAHKY ILAVHSDFFQ KLFLSDGNTS EFTDIYQKDE DSAGCHLFVV EKVHPDMFEY LLQFIYTDTC DFLTHGFKPR IHLNKNPEEY

QGTLNSHLNK VNFHEDDNQK SAFEVYKSNQ AQTVSERQKS KPKSCKKGKN IREDDPVRML QTVAKKFDFS NLSSRLDGVR FENEKINVIA KNTGNKLKLS QKKCSFLCDV TMKSVDGKEF PCHKCVLCAR LEYFHSMLSS SWIEASSCAA LEMPIHSDIL KVILDYLYTD EAVVIKESQN VDFICSVLVV ADQLLITRLK EICEVALTEK LTLKNAAMLL EFAAMYSAKQ LKLSCLQFIG LNMAALLEAR SLDVLSDGVL KDLSEFYRKM IPAMDRRVIT PYQDGPDISY LEVEDGDIFL KEEINMEQNH SETMFKKAKT KAKKKPRKRS DSSGGYNLSD IIQSPSSTGL LKSGKTNSVE SLPELLTSDS EGSYAGVGSP RDLQSPDFTT GFHSDKIEAK VKPYVNGTSP VYSREDLKPW EKSPILKISA PQPIPSNRID TTSSASWVAG SFSPVSPPVV DLRTIMEIEE SRQKCGATPK SHLGKTVSHG VKLSQKQRKM IALTTKENNS GMNSMETVLF TPSKAPKPVN AWASSLHSVS SKSFRDFLLE EKKSVTSHSS GDHVKKVSFK GIENSQAPKI VRCSTHGTPG PEGNHISDLP LLDSPNPWLS SSVTAPSMVA PVTFASIVEE ELQQEAALIR SREKPLALIQ IEEHAIQDLL VFYEAFGNPE EFVIVERTPQ GPLAVPMWNK HGC

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

Product Details

	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:	IBTK
Alternative Name:	IBTK (IBTK Products)
Background:	Inhibitor of Bruton tyrosine kinase (IBtk),FUNCTION: Acts as an inhibitor of BTK tyrosine kinase activity, thereby playing a role in B-cell development. Down-regulates BTK kinase activity, leading to interference with BTK-mediated calcium mobilization and NF-kappa-B-driven transcription. {ECO:0000269|PubMed:11577348}.
Molecular Weight:	150.5 kDa
UniProt:	Q9P2D0

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