

Datasheet for ABIN3093014
IBTK Protein (AA 1-1353) (Strep Tag)



[Go to Product page](#)

1 Image

Overview

| | |
|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | IBTK |
| Protein Characteristics: | AA 1-1353 |
| Origin: | Human |
| Source: | Tobacco (<i>Nicotiana tabacum</i>) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This IBTK protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

Sequence: MSSPMPDCTS KCRSLKHALD VLSVVTKGSE NQIKAFSSH CYNAATIKDV FGRNALHLVS
 SCGKKGVLWD LIQKGVDLLV KDKESGWTAL HRSIFYGHID CVWSLLKHGV SLYIQDKEGL
 SALDLVMKDR PTHVVFKN TD PTDVYTWGDN TNFTLGHGSQ NSKHHPPELVD LFSRSGIYIK
 QVVLCKFHSV FLSQKGQVYT CGHGPGGRLG HGDEQTCLVP RLVEGLNGHN CSQVAAAKDH
 TVVLTEDGCV YTFGLNIFHQ LGIIPPPSSC NVPRQIQAKY LKGRTIIGVA AGRFHTVLWT
 REAVYTMGLN GGQLGCLLDP NGEKCVTAPR QVSALHHKDI ALSLVAASDG ATVCVTRRGD
 IYLLADYQCK KMASKQLNLK KVLVSGGHME YKVDPEHLKE NGGQKICILA MDGAGRVFCW
 RSVNSSLKQC RWAYPRQVFI SDIALNRNEI LFVTQDGEGF RGRWFEEKRK SSEKKEILSN
 LHNSSSDVSY VSDINSVYER IRLEKLTFAH RAVSVSTDPG GCNFAILQSD PKTSLYEIPA
 VSSSSFFEEF GKLLREADEM DSIHDVTFQV GNRLFPAHKY ILAVHSDFFQ KLFLSDGNTS
 EFTDIYQKDE DSAGCHLFVV EKVHPDMFEY LLQFIYTDTC DFLTHGFKPR IHLNKNPEEY
 QGTLNSHLNK VNFHEDDQK SAFEVYKSNQ AQTVSRQKS KPKSCKKGKN IREDDPVRML

QTVAKKDFDS NLSSRLDGVR FENEKINVIA KNTGNKLLS QKKCSFLCDV TMKSVDGKEF
PCHKCVLCAR LEYFHSMMLSS SWIEASSCAA LEMPIHSDIL KVILDYLYTD EAVVIKESQN
VDFICSVLVV ADQLLITRLK EICEVALTEK LTLKNAAMLL EFAAMYSAKQ LKLSCLQFIG
LNMAALLEAR SLDVLSDGVL KDLSEFYRKM IPAMDRRVIT PYQDGPDISY LEVEDGDIFL
KEEINMEQNH SETMFKKAKT KAKKKPRKRS DSSGGYNLSD IIQSPSSTGL LKSGKTNSVE
SLPELLTSDS EGSYAGVGGSP RDLQSPDFTT GFHSDKIEAK VKPYVNGTSP VYSREDLKPW
EKSPILKISA PQIPSNRID TTSSASWVAG SFSPVSPV VDLRTIMEIEE SRQKCGATPK
SHLGKTVSHG VKLSQKQRKM IALTTKENNS GMNSMETVLF TPSKAPKPVN AWASSLHSVS
SKSFRDFLLE EKKSVTSHSS GDHVKKVSFK GIENSQAPKI VRCSTHGTGP PEGNHISDLP
LLDSPNPWLS SSVTAPSMVA PVTFAVIEE ELQQAALIR 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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

| | |
|------------------|---|
| Purification: | Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot. |
| Purity: | >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. |
| Endotoxin Level: | Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) |
| Grade: | Crystallography grade |

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 |
|--------------------|--|

Application Details

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 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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process