Datasheet for ABIN3082273

# KBTBD7 Protein (AA 1-684) (Strep Tag)

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## Overview

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| Quantity: | 250 µg |
| Target: | KBTBD7 |
| Protein Characteristics: | AA 1-684 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This KBTBD7 protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

## Product Details

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| Brand: | AliCE® |
| Sequence: | MQSREDVPRS RRLASPRGGR RPKRISKPSV SAFFTGPEEL KDTAHSAALL AQLKSFYDAR LLCDVTIEVV TPGSGPGTGR LFSCNRNVLA AACPYFKSMF TGGMYESQQA SVTMHDVDAE SFEVLVDYCY TGRVSLSEAN VQRLYAASDM LQLEYVREAC ASFLARRLDL TNCTAILKFA DAFDHHKLRS QAQSYIAHNF KQLSRMGSIR EETLADLTLA QLLAVLRLDS LDIESERTVC HVAVQWLEAA AKERGPSAAE VFKCVRWMHF TEEDQDYLEG LLTKPIVKKY CLDVIEGALQ MRYGDLLYKS LVPVPNSSSS SSSSNSLVSA AENPPQRLGM CAKEMVIFFG HPRDPFLCYD PYSGDIYTMP SPLTSFAHTK TVTSSAVCVS PDHDIYLAAQ PRKDLWVYKP AQNSWQQLAD RLLCREGMDV AYLNGYIYIL GGRDPITGVK LKEVECYSVQ RNQWALVAPV PHSFYSFELI VVQNYLYAVN SKRMLCYDPS HNMWLNCASL KRSDFQEACV FNDEIYCICD IPVMKVYNPA RGEWRRISNI PLDSETHNYQ IVNHDQKLLL ITSTTPQWKK NRVTVYEYDT REDQWINIGT MLGLLQFDSG FICLCARVYP SCLEPGQSFI TEEDDARSES STEWDLDGFS ELDSESGSSS |

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| | SFSDDEVWVQ VAPQRNAQDQ QGSL<br>**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:<br>• Made in Germany - from design to production - by highly experienced protein experts.<br>• Protein expressed with ALiCE® and purified in one-step affinity chromatography<br>• These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br>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.<br><br>Expression System:<br>• 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.<br>• 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!<br><br>Concentration:<br>• The concentration of our recombinant proteins is measured using the absorbance at 280nm.<br>• The protein's absorbance will be measured against its specific reference buffer.<br>• 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®). |

## Product Details

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

## Target Details

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| Target: | KBTBD7 |
| Alternative Name: | KBTBD7 (KBTBD7 Products) |
| Background: | Kelch repeat and BTB domain-containing protein 7,FUNCTION: As part of the CUL3(KBTBD6/7) E3 ubiquitin ligase complex functions as a substrate adapter for the RAC1 guanine exchange factor (GEF) TIAM1, mediating its 'Lys-48' ubiquitination and proteasomal degradation (PubMed:25684205). By controlling this ubiquitination, regulates RAC1 signal transduction and downstream biological processes including the organization of the cytoskeleton, cell migration and cell proliferation (PubMed:25684205). Ubiquitination of TIAM1 requires the membrane-associated protein GABARAP which may restrict locally the activity of the complex (PubMed:25684205). {ECO:0000269\|PubMed:25684205}. |
| Molecular Weight: | 77.2 kDa |
| UniProt: | Q8WVZ9 |

## Application Details

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| 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.<br>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

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer.<br>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 |