

Datasheet for ABIN3079018

## Dystrobrevin beta Protein (AA 1-627) (Strep Tag)



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### Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 250 µg   |
| Target:                       | Dystrobrevin beta (DTNB)                                   |
| Protein Characteristics:      | AA 1-627   |
| Origin:                       | Human  |
| Source:                       | Cell-free protein synthesis (CFPS)                         |
| Protein Type:                 | Recombinant  |
| Purification tag / Conjugate: | This Dystrobrevin beta protein is labelled with Strep Tag. |
| Application:                  | Western Blotting (WB), SDS-PAGE (SDS), ELISA               |

### Product Details

|           |  |
|-----------|--|
| Brand:    | AliCE®   |
| Sequence: | <p>MIEESGNKRK TMAEKRLFI EMRAQNFDVI RLSTYRTACK LRFVQKRCNL HLVDIWNMIE</p> <p>AFRDNGLNTL DHTTEISVSR LETVISSYY QLNKRLPSTH QISVEQSISL LLNFMIAAYD</p> <p>SEGRGKLTVF SVKAMLATMC GGKMLDKLRY VFSQMDSNSG LMIFSKFDQF LKEVLKLPTA</p> <p>VFEGPSFGYT EHSVRTCFFQ QRKIMLNMFL DTMMADPPPQ CLVWLPLMHR LAHVENVFHP</p> <p>VECSYCRCES MMGFRYRCQQ CHNYQLCQNC FWRGHAGGPH SNQHQMKEHS SWKSPAKKLS</p> <p>HAISKSLGCV PTREPPHPVF PEQPEKPLDL AHIVPPRPLT NMNDTMVSHM SSGVPTPTKR</p> <p>LQYSQDIPSH LADEHALIAS YVARLQHCAR VLDSPSRLE EHRLIARYAA RLAAEAGNVT</p> <p>RPPTDLFSNF DANKQQRQLI AELENKNREI LQEIQLRLE HEQASQPTPE KAAQNPTLLA</p> <p>ELRLLRQRKD ELEQRMSALQ ESRRELMVQL EELMKLLKEE EQKQAAQATG SPHTSPTHGG</p> <p>GRPMPMPVRS TSAGSTPTHG PQDSLSGVGG DVQEAFQAGT RRNLNDLLV AADSITNTMS</p> <p>SLVKELHSAE EGAEIEEEK QNGKDRG</p> |

**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.**

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### 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!

#### 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.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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### Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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## Product Details

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Grade: custom-made

## Target Details

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Target: Dystrobrevin beta (DTNB)

Alternative Name: DTNB ([DTNB Products](#))

Background: Dystrobrevin beta (DTN-B) (Beta-dystrobrevin),FUNCTION: Scaffolding protein that assembles DMD and SNTA1 Molecules to the basal membrane of kidney cells and liver sinusoids (By similarity). May function as a repressor of the SYN1 promoter through the binding of repressor element-1 (RE-1), in turn regulates SYN1 expression and may be involved in cell proliferation regulation during the early phase of neural differentiation (PubMed:27223470). May be required for proper maturation and function of a subset of inhibitory synapses (By similarity). {ECO:0000250|UniProtKB:O70585, ECO:0000269|PubMed:27223470}.

Molecular Weight: 71.4 kDa

UniProt: [O60941](#)

## 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.

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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 <b>Might differ depending on protein.</b> |
| Handling Advice: | Avoid repeated freeze-thaw cycles.   |
| Storage:         | -80 °C   |
| Storage Comment: | Store at -80°C.  |
| Expiry Date:     | 12 months  |