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# **DVL1 Protein (AA 1-695) (Strep Tag)**



**Image** 



#### Overview

Quantity:	1 mg
Target:	DVL1
Protein Characteristics:	AA 1-695
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DVL1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

#### **Product Details**

Sequence:

MAETKIIYHM DEEETPYLVK LPVAPERVTL ADFKNVLSNR PVHAYKFFFK SMDQDFGVVK
EEIFDDNAKL PCFNGRVVSW LVLAEGAHSD AGSQGTDSHT DLPPPLERTG GIGDSRPPSF
HPNVASSRDG MDNETGTESM VSHRRERARR RNREEAARTN GHPRGDRRRD VGLPPDSAST
ALSSELESSS FVDSDEDGST SRLSSSTEQS TSSRLIRKHK RRRRKQRLRQ ADRASSFSSI
TDSTMSLNIV TVTLNMERHH FLGISIVGQS NDRGDGGIYI GSIMKGGAVA ADGRIEPGDM
LLQVNDVNFE NMSNDDAVRV LREIVSQTGP ISLTVAKCWD PTPRSYFTVP RADPVRPIDP
AAWLSHTAAL TGALPRYGTS PCSSAVTRTS SSSLTSSVPG APQLEEAPLT VKSDMSAVVR
VMQLPDSGLE IRDRMWLKIT IANAVIGADV VDWLYTHVEG FKERREARKY ASSLLKHGFL
RHTVNKITFS EQCYYVFGDL CSNLATLNLN SGSSGTSDQD TLAPLPHPAA PWPLGQGYPY
QYPGPPPCFP PAYQDPGFSY GSGSTGSQQS EGSKSSGSTR SSRRAPGREK ERRAAGAGGS
GSESDHTAPS GVGSSWRERP AGQLSRGSSP RSQASATAPG LPPPHPTTKA YTVVGGPPGG
PPVRELAAVP PELTGSRQSF QKAMGNPCEF FVDIM

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 posttranslational 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 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®):

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 >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Grade: Crystallography grade **Target Details** DVL1 Target: Alternative Name: DVL1 (DVL1 Products) Background: Segment polarity protein dishevelled homolog DVL-1 (Dishevelled-1) (DSH homolog 1), FUNCTION: Participates in Wnt signaling by binding to the cytoplasmic C-terminus of frizzled family members and transducing the Wnt signal to down-stream effectors. Plays a role both in canonical and non-canonical Wnt signaling. Plays a role in the signal transduction pathways mediated by multiple Wnt genes. Required for LEF1 activation upon WNT1 and WNT3A signaling. DVL1 and PAK1 form a ternary complex with MUSK which is important for MUSKdependent regulation of AChR clustering during the formation of the neuromuscular junction (NMJ). Molecular Weight: 75.2 kDa UniProt: 014640 Pathways: WNT Signaling, Synaptic Membrane, Skeletal Muscle Fiber Development **Application Details** In addition to the applications listed above we expect the protein to work for functional studies Application Notes: 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 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!

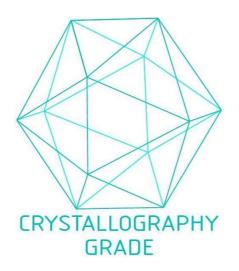
Restrictions:

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)

## **Images**



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process