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Datasheet for ABIN3092060

DEAF1 Protein (AA 1-565) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	DEAF1
Protein Characteristics:	AA 1-565
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DEAF1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MEDSDSAAKQ LGLAEAAVA AAAAVAAAAA AAAGGEAEEP VLSRDEDSEE DADSEAERET
 PRVTAVAVMA AEPGHMDMGA EALPGPDEAA AAAFAEVTT VTVANVGAAA DNVFTTSVAN
 AASISGHVLS GRTALQIGDS LNTEKATLIV VHTDGSIVET TGLKGPAAPL TPGPQSPPTP
 LAPGQEKGGT KYNWDPSVYD SELPVRCRNI SGTLYKNRLG SGGRGRCIKQ GENWYSPTFE
 EAMAGRASSK DWKRSIRYAG RPLQCLIQDG ILNPHAASCT CAACDDMTL SGPVRLFVPY
 KRRKKENELP TTPVKKDSPK NITLLPATAA TTFTVTPSGQ ITTSGALTFD RASTVEATAV
 ISESPAQGDV FAGATVQEAS VQPPCRASHP EPHYPGYQDS CQIAPFPEAA LPTSHPKIVL
 TSLPALAVPP PTPTKAAPPA LVNGLELSEP RSWLYLEEMV NSLLNTAQQ LKTLFEQAKHA
 STYREAATNQ AKIHADAERK EQSCVNCGRE AMSECTGCHK VNYCSTFCQR KDWKDHQHIC
 GQSAAVTVQA DEVHVAESVM EKVTV

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 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.

Product Details

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: DEAF1

Alternative Name: DEAF1 ([DEAF1 Products](#))

Background: Deformed epidermal autoregulatory factor 1 homolog (Nuclear DEAF-1-related transcriptional regulator) (NUDR) (Suppressin) (Zinc finger MYND domain-containing protein 5),FUNCTION: Transcription factor that binds to sequence with multiple copies of 5'-TTC[CG]G-3' present in its own promoter and that of the HNRPA2B1 gene. Down-regulates transcription of these genes. Binds to the retinoic acid response element (RARE) 5'-AGGGTTCACCGAAAGTTCA-3'. Activates the proenkephalin gene independently of promoter binding, probably through protein-protein interaction. When secreted, behaves as an inhibitor of cell proliferation, by arresting cells in the G0 or G1 phase. Required for neural tube closure and skeletal patterning. Regulates epithelial cell proliferation and side-branching in the mammary gland. Controls the expression of peripheral tissue antigens in pancreatic lymph nodes. Isoform 1 displays greater transcriptional activity than isoform 4. Isoform 4 may inhibit transcriptional activity of isoform 1 by interacting with isoform 1 and retaining it in the cytoplasm. Transcriptional activator of EIF4G3. {ECO:0000269|PubMed:10521432, ECO:0000269|PubMed:11427895, ECO:0000269|PubMed:11705868, ECO:0000269|PubMed:18826651, ECO:0000269|PubMed:19668219, ECO:0000269|PubMed:24726472}.

Molecular Weight: 59.3 kDa

UniProt: [O75398](#)

Pathways: [Tube Formation](#)

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:

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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