Datasheet for ABIN3092183

DLG1 Protein (AA 1-904) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	DLG1
Protein Characteristics:	AA 1-904
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DLG1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MPVRKQDTQR ALHLLEEYRS KLSQTEDRQL RSSIERVINI FQSNLFQALI DIQEFYEVTL LDNPKCIDRS KPSEPIQPVN TWEISSLPSS TVTSETLPSS LSPSVEKYRY QDEDTPPQEH ISPQITNEVI GPELVHVSEK NLSEIENVHG FVSHSHISPI KPTEAVLPSP PTVPVIPVLP VPAENTVILP TIPQANPPPV LVNTDSLETP TYVNGTDADY EYEEITLERG NSGLGFSIAG GTDNPHIGDD SSIFITKIIT GGAAAQDGRL RVNDCILRVN EVDVRDVTHS KAVEALKEAG SIVRLYVKRR KPVSEKIMEI KLIKGPKGLG FSIAGGVGNQ HIPGDNSIYV TKIIEGGAAH KDGKLQIGDK LLAVNNVCLE EVTHEEAVTA LKNTSDFVYL KVAKPTSMYM NDGYAPPDIT NSSSQPVDNH VSPSSFLGQT PASPARYSPV SKAVLGDDEI TREPRKVVLH RGSTGLGFNI VGGEDGEGIF ISFILAGGPA DLSGELRKGD RIISVNSVDL RAASHEQAAA ALKNAGQAVT IVAQYRPEEY SRFEAKIHDL REQMMNSSIS SGSGSLRTSQ KRSLYVRALF DYDKTKDSGL PSQGLNFKFG DILHVINASD DEWWQARQVT PDGESDEVGV IPSKRRVEKK ERARLKTVKF

NSKTRDKGEI PDDMGSKGLK HVTSNASDSE SSYRGQEEYV LSYEPVNQQE VNYTRPVIIL GPMKDRINDD LISEFPDKFG SCVPHTTRPK RDYEVDGRDY HFVTSREQME KDIQEHKFIE AGQYNNHLYG TSVQSVREVA EKGKHCILDV SGNAIKRLQI AQLYPISIFI KPKSMENIME MNKRLTEEQA RKTFERAMKL EQEFTEHFTA IVQGDTLEDI YNQVKQIIEE QSGSYIWVPA KEKL

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 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.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	DLG1
Alternative Name:	DLG1 (DLG1 Products)
Background:	Disks large homolog 1 (Synapse-associated protein 97) (SAP-97) (SAP97) (hDlg),FUNCTION: Essential multidomain scaffolding protein required for normal development (By similarity). Recruits channels, receptors and signaling molecules to discrete plasma membrane domains in polarized cells. May play a role in adherens junction assembly, signal transduction, cell proliferation, synaptogenesis and lymphocyte activation. Regulates the excitability of cardiac myocytes by modulating the functional expression of Kv4 channels. Functional regulator of Kv1.5 channel. During long-term depression in hippocampal neurons, it recruits ADAM10 to the plasma membrane (PubMed:23676497). {ECO:0000250, ECO:0000269|PubMed:10656683, ECO:0000269|PubMed:12445884, ECO:0000269|PubMed:14699157, ECO:0000269|PubMed:15263016, ECO:0000269|PubMed:19213956, ECO:0000269|PubMed:20605917, ECO:0000269|PubMed:23676497}.
Molecular Weight:	100.5 kDa
UniProt:	Q12959
Pathways:	Regulation of Actin Filament Polymerization, Cell-Cell Junction Organization, Production of Molecular Mediator of Immune Response

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 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.

Application Details

	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. 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

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