

Datasheet for ABIN3137391 DACH1 Protein (AA 1-751) (Strep Tag)



Overview

Quantity:	250 µg
Target:	DACH1
Protein Characteristics:	AA 1-751
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DACH1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAVPAALIPP TQLVPPQPPI STSASSSGTT TSTSSATSSP APSIGPPASS GPTLFRPEPI
	ASSASSSAAA TVTSPGGGGG GSGGGGGGGG NGGGGGSNCN PSLAAGSSGG GVSAGGGGAS
	STPITASTGS SSSSSSSSS SSSSSSSSS SSSSSSCGPL PGKPVYSTPS PVENTPQNNE
	CKMVDLRGAK VASFTVEGCE LICLPQAFDL FLKHLVGGLH TVYTKLKRLE ITPVVCNVEQ
	VRILRGLGAI QPGVNRCKLI SRKDFETLYN DCTNASSRPG RPPKRTQSVT SPENSHIMPH
	SVPGLMSPGI IPPTGLTAAA AAAAAATNAA IAEAMKVKKI KLEAMSNYHA SNNQHGADSE
	NGDMNSSVGS SGGSWDKETL HSPPSQGSQA PVAHARMPAA FSLPVSHPLN HLQHSHLPPN
	GLELPFMMMP HPLIPVSLPP ASVTMAMSQM NHLSTIANMA AAAQVQSPPS RVETSVIKER
	VPDSPSPAPS LEEGRRPGSH PSSHRSSSVS SSPARTESSS DRIPVHQNGL SMNQMLMGLS
	PNVLPGPKEG DLAGHDMGHE SKRIHIEKDE TPLSTPTARD SIDKLSLTGH GQPLPPGFPS
	PFLFPDGLSS IETLLTNIQG LLKVAIDNAR AQEKQVQLEK TELKMDFLRE RELRETLEKQ

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LAMEQKNRAI VQKRLKKEKK AKRKLQEALE FETKRREQAE QTLKQAASAD SLRVLNDSLT PEIEADRSGG RADAERTIQD GRLYLKTTVM Y

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 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 against its specific reference buffer.
- 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®).

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Product Details

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

Target Details

Target:	DACH1
Alternative Name:	Dach1 (DACH1 Products)
Background:	Dachshund homolog 1 (Dach1),FUNCTION: Transcription factor that is involved in regulation or organogenesis. Seems to be a regulator of SIX1, SIX6 and probably SIX5. Corepression of precursor cell proliferation in myoblasts by SIX1 is switched to coactivation through recruitment of EYA3 to the SIX1-DACH1 complex. Transcriptional activation seems also to involve association of CREBBP. Seems to act as a corepressor of SIX6 in regulating proliferation by directly repressing cyclin-dependent kinase inhibitors, including the p27Kip1 promoter. Inhibits TGF-beta signaling through interaction with SMAD4 and NCOR1 (By similarity). Binds to chromatin DNA via its DACHbox-N domain. {ECO:0000250, ECO:0000269 PubMed:12130660, ECO:0000269 PubMed:12215533, ECO:0000269 PubMed:14628042}.
Molecular Weight:	78.0 kDa
UniProt:	Q9QYB2
Pathways:	Feeding Behaviour
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. 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

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Application Details	
	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