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GAPVD1 Protein (AA 1-1478) (Strep Tag)



Image



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Overview

Quantity:	1 mg
Target:	GAPVD1
Protein Characteristics:	AA 1-1478
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GAPVD1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MVKLDIHTLA HHLKQERLYV NSEKQLIQRL NADVLKTAEK LYRTAWIAKQ QRINLDRLII
TSAEASPAEC CQHAKILEDT QFVDGYKQLG FQETAYGEFL SRLRENPRLI ASSLVAGEKL
NQENTQSVIY TVFTSLYGNC IMQEDESYLL QVLRYLIEFE LKESDNPRRL LRRGTCAFSI
LFKLFSEGLF SAKLFLTATL HEPIMQLLVE DEDHLETDPN KLIERFSPSQ QEKLFGEKGS
DRFRQKVQEM VESNEAKLVA LVNKFIGYLK QNTYCFPHSL RWIVSQMYKT LSCVDRLEVG
EVRAMCTDLL LACFICPAVV NPEQYGIISD APINEVARFN LMQVGRLLQQ LAMTGSEEGD
PRTKSSLGKF DKSCVAAFLD VVIGGRAVET PPLSSVNLLE GLSRTVVYIT YSQLITLVNF
MKSVMSGDQL REDRMALDNL LANLPPAKPG KSSSLEMTPY NTPQLSPATT PANKKNRLPI
ATRSRSRTNM LMDLHMDHEG SSQETIQEVQ PEEVLVISLG TGPQLTPGMM SENEVLNMQL
SDGGQGDVPV DENKLHGKPD KTLRFSLCSD NLEGISEGPS NRSNSVSSLD LEGESVSELG
AGPSGSNGVE ALQLLEHEQA TTQDNLDDKL RKFEIRDMMG LTDDRDISET VSETWSTDVL
GSDFDPNIDE DRLQEIAGAA AENMLGSLLC LPGSGSVLLD PCTGSTISET TSEAWSVEVL

PSDSEAPDLK QEERLQELES CSGLGSTSDD TDVREVSSRP STPGLSVVSG ISATSEDIPN KIEDLRSECS SDFGGKDSVT SPDMDEITHG AHQLTSPPSQ SESLLAMFDP LSSHEGASAV VRPKVHYARP SHPPPDPPIL EGAVGGNEAR LPNFGSHVLT PAEMEAFKQR HSYPERLVRS RSSDIVSSVR RPMSDPSWNR RPGNEERELP PAAAIGATSL VAAPHSSSSS PSKDSSRGET EERKDSDDEK SDRNRPWWRK RFVSAMPKAP IPFRKKEKQE KDKDDLGPDR FSTLTDDPSP RLSAQAQVAE DILDKYRNAI KRTSPSDGAM ANYESTGDNH DRDLSSKLLY HSDKEVMGDG ESAHDSPRDE ALQNISADDL PDSASQAAHP QDSAFSYRDA KKKLRLALCS ADSVAFPVLT HSTRNGLPDH TDPEDNEIVC FLKVQIAEAI NLQDKNLMAQ LQETMRCVCR FDNRTCRKLL ASIAEDYRKR APYIAYLTRC RQGLQTTQAH LERLLQRVLR DKEVANRYFT TVCVRLLLES KEKKIREFIQ DFQKLTAADD KTAQVEDFLQ FLYGAMAQDV IWQNASEEQL QDAQLAIERS VMNRIFKLAF YPNQDGDILR DQVLHEHIQR LSKVVTANHR ALQIPEVYLR EAPWPSAQSE IRTISAYKTP RDKVQCILRM CSTIMNLLSL ANEDSVPGAD DFVPVLVFVL IKANPPCLLS TVQYISSFYA SCLSGEESYW WMQFTAAVEF IKTIDDRK

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.
- 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:

Target:

Crystallography grade

Target Details

Alternative Name: GAPVD1 (GAPVD1 Products)

GAPVD1

Background:

GTPase-activating protein and VPS9 domain-containing protein 1 (GAPex-5) (Rab5-activating protein 6),FUNCTION: Acts both as a GTPase-activating protein (GAP) and a guanine nucleotide exchange factor (GEF), and participates in various processes such as endocytosis, insulin receptor internalization or LC2A4/GLUT4 trafficking. Acts as a GEF for the Ras-related protein RAB31 by exchanging bound GDP for free GTP, leading to regulate LC2A4/GLUT4 trafficking. In the absence of insulin, it maintains RAB31 in an active state and promotes a futile cycle between LC2A4/GLUT4 storage vesicles and early endosomes, retaining LC2A4/GLUT4 inside the cells. Upon insulin stimulation, it is translocated to the plasma membrane, releasing

Target Details

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	LC2A4/GLUT4 from intracellular storage vesicles. Also involved in EGFR trafficking and
	degradation, possibly by promoting EGFR ubiquitination and subsequent degradation by the
	proteasome. Has GEF activity for Rab5 and GAP activity for Ras.
	{ECO:0000269 PubMed:16410077}.
Molecular Weight:	165.0 kDa
UniProt:	Q14C86
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
	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)



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