Datasheet for ABIN3136138

VIPAR Protein (AA 1-491) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	VIPAR
Protein Characteristics:	AA 1-491
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This VIPAR protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MNRTKGDEEE YWNSSKFKAF TFDDEDDELS QLKESKRAVN SLRDIVDDDD DDDLERVSWT GEPVGSISWS IKETAGSSGS TPEGREQLKG RNSFYTQLPK PPSTYSLSSF FRGRTRPGSF QSLSDALSDT PAKSYAPELG RPKGEYRDYS NDWSLSDTVQ RLRRGKVCSL ERFRSLQDKL QLLEEAVSMH DGNVITAVLI FLKRTLSKEI LFRELEVRQV ALRHLIHFLK EIGDQKLLLD LFRFLDRAEE LALSHYREHL NIQDPEKRKE FLKTCIGLPF SAEDAAHVQD HYTLLERQII IEANDRHLES SGQTDIFRKH PRKASILNMP LVTTLFYACF YHYTESEGTF SSPINLKKTF KIPDKQYVLT ALAARAKLRA WNDVDALFTT KNWLGYTKKR APIGFHRVVE ILHKNSAPVQ ILQEYVNLVE DVDTKLNLAT KFKCHDVVID TCRDLKDRQQ LLAYRSKVDK GSAEEEKIDA ILSSSQIRWK N **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.
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:	VIPAR
Alternative Name:	Vipas39 (VIPAR Products)
Background:	Spermatogenesis-defective protein 39 homolog (hSPE-39) (VPS33B-interacting protein in apical-basolateral polarity regulator) (VPS33B-interacting protein in polarity and apical restriction),FUNCTION: Proposed to be involved in endosomal maturation implicating in part VPS33B. In epithelial cells, the VPS33B:VIPAS39 complex may play a role in the apical RAB11A-dependent recycling pathway and in the maintenance of the apical-basolateral polarity (PubMed:20190753). May play a role in lysosomal trafficking, probably via association with the core HOPS complex in a discrete population of endosomes, the functions seems to be independent of VPS33B (By similarity). May play a role in vesicular trafficking during spermatogenesis (By similarity). May be involved in direct or indirect transcriptional regulation of E-cadherin. {ECO:0000250|UniProtKB:Q23288, ECO:0000250|UniProtKB:Q9H9C1, ECO:0000269|PubMed:20190753}.
Molecular Weight:	56.6 kDa
UniProt:	Q8BGQ1

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. 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