Datasheet for ABIN3124323

PRICKLE3 Protein (AA 1-624) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	PRICKLE3
Protein Characteristics:	AA 1-624
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRICKLE3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MFARGSRRRR SGRAPPEAED PARGQPCNSC REQCPGFLLH GWRKICQHCK CPREEHAVRT VPVDLERIMC RLISDFQRHS ISDDDSGCAS EEYAWVPPGL KPEQVYQFFS CLPEDKVPYV NSPGEKYRIK QLLHQLPPHD SEAQYCTALE EEEKKELRAF SQQRKRENLG RATVRIFPVT ITGAICEECG KQIGGGDIAV FASRAGLGAC WHPQCFVCTT CQELLVDLIY FYHAGKVYCG RHHAECLRPR CQACDEIIFS PECTEAEGRH WHMGHFCCFE CEASLGGQRY VMRQSRPHCC ACYEARHAEY CDGCGEHIGL DQGQMAYEGQ HWHASDRCFC CSRCSRPLLG RPFLPRRGLI FCSRACSLGS ETTAPGPGRR SWSAGTVTTP LTTSTASFSA TEGTSETASK GTCTKAEPAA GPEEPSHFLR GAPHRHSMPE LGLRSAPEPP TESPGHPAPH PDDNAFGRQS TPRVSFRDPL VSEGGPRRTL SAPPAQRRRP RSPPPRTPSC HHHHHHRRRR QRHRRRGSHH HHHHPGRHGH HRCDLGSGSD SGSCSSSPSS PSSESSEDDG FFLGERIPLP PHLCRPRTTQ DTSTETFNSP AQPLVQESHP VMPRQTRDKN CIVA

Product Details

	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).

Product Details

Grade:	custom-made

Target Details

Target:	PRICKLE3
Alternative Name:	Prickle3 (PRICKLE3 Products)
Background:	Prickle planar cell polarity protein 3 (LIM domain only protein 6) (LMO-6) (Prickle-like protein 3) (Pk3) (Triple LIM domain protein 6),FUNCTION: Involved in the planar cell polarity (PCP) pathway that is essential for the polarization of epithelial cells during morphogenetic processes, including gastrulation and neurulation (By similarity). PCP is maintained by two molecular modules, the global and the core modules, PRICKLE3 being part of the core module (By similarity). Distinct complexes of the core module segregate to opposite sides of the cell, where they interact with the opposite complex in the neighboring cell at or near the adherents junctions (By similarity). Involved in the organization of the basal body (By similarity). Involved in cilia growth and positioning (By similarity). Required for proper assembly, stability, and function of mitochondrial membrane ATP synthase (mitochondrial complex V) (PubMed:32516135). {ECO:0000250|UniProtKB:A8WH69, ECO:0000269|PubMed:32516135}.
Molecular Weight:	69.7 kDa
UniProt:	Q80VL3

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!

Application Details

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