Datasheet for ABIN3125040

DZIP1 Protein (AA 1-852) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	DZIP1
Protein Characteristics:	AA 1-852
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DZIP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MPFQKHVYYP LANSPEGPDA SAIGAAPMAF VPPSAASGPL PFFQFRPRLE SVDWRRLSAI DVDKVAGAVD VLTLQENIMN ITFCKLEDEK CPHCQSGVDP VLLKLIRLAQ LTIEYLMHSQ EFLTSQLNLV EERLRLSLLD YEQSKQLLTK QAGEIKLLKE ECKRRKKMLS TQQLMIEAKA SYYQCHFCDK AFMNQAFLQS HIQRRHTEDS HLEYNTKAQT DRLQKEIDML KEQLQLTRSQ LESAQHSHAV RFSKDYEMQK SKEEDFLKLF DRWKEEEKEK LLEEMEKVKG MFMREFKELT SKNSALEYQL LEIQKSNIQI KSNIGTLRDV TELREDHLPC PQDFQNMLQL LDSQASKWTD RFQVLNEEHS KEKGQLLSHI EKLRSSMMKD LSADNVFYKR RVEELGQKLQ EQNELIISQK QQIREFASKP YSSISELKGT PLTRQTLEPK SAAPTTPMTA SATQNLDGAS SLTMVHEQVF SSHILEPIEE LSSEEEKGRE NEQKLNKKTS LRKPSSTSPS PQELRTNLER ELGNKLRSFG IGANIQGIPC EILNRSLKAM QVARHDLAKQ MPDIQQIRES LEHQLICKME EKVSLSSDRH HVPSMTTFPP EEVPKATQLP HKSRPLVRQR TVFTDKVSVP KLKKNTKESH FLRRFPSTKT

PPFSSEEEPD EEDLLHAYLS PDSLATAATQ PPKSSMSHFG KSAVKSDTDW TEGSEMDDSD FSPKLTGTSI TIQTDTVETM ALPQGSGNKA VPGMNPADTV IKKESLQELK CTDADDEDWD ISSLEEEKSL GSKIEQREPP PAKRDPSCTQ VQRAWGPVNP REFKEEGLHE NEPSTLKSNL VTVTDWSDVL DV

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:	DZIP1
Alternative Name:	Dzip1 (DZIP1 Products)
Background:	Cilium assembly protein DZIP1 (DAZ-interacting protein 1 homolog) (DAZ-interacting zinc finger protein 1),FUNCTION: Molecular adapter that recruits protein complexes required for cilium assembly and function to the cilium basal body (PubMed:23955340, PubMed:25860027, PubMed:31118289, PubMed:32051257). At the exit of mitosis, localizes to the basal body and ciliary base of the forming primary cilium where it recruits and activates RAB8A to direct vesicle-mediated transport of proteins to the cilium (PubMed:25860027). Also recruits the BBSome, a complex involved in cilium biogenesis, by bridging it to PCM1 at the centriolar satellites of the cilium (PubMed:27979967). It is also required for the recruitment to the cilium basal body of the intraflagellar transport (IFT) machinery as well as the ciliary appendage proteins CEP164 and NINEIN (PubMed:23955340). Functions as a regulator of Hedgehog signaling both through its role in cilium assembly but also probably through its ability to retain GLI3 within the cytoplasm (PubMed:23955340). It is involved in spermatogenesis through its role in organization of the basal body and assembly of the sperm flagellum (PubMed:32051257). Also indirectly involved in heart development through its function in ciliogenesis (PubMed:31118289). {ECO:0000269|PubMed:23955340, ECO:0000269|PubMed:25860027, ECO:0000269|PubMed:27979967, ECO:0000269|PubMed:31118289, ECO:0000269|PubMed:32051257}.
Molecular Weight:	97.3 kDa
UniProt:	Q8BMD2
Pathways:	Hedgehog Signaling, Protein targeting to Nucleus

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

Application Details

	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