Datasheet for ABIN3096438

ZIC2 Protein (ZIC2) (AA 1-532) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ZIC2
Protein Characteristics:	AA 1-532
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZIC2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MLLDAGPQFP AIGVGSFARH HHHSAAAAAA AAAEMQDREL SLAAAQNGFV DSAAAHMGAF KLNPGAHELS PGQSSAFTSQ GPGAYPGSAA AAAAAAALGP HAAHVGSYSG PPFNSTRDFL FRSRGFGDSA PGGGQHGLFG PGAGGLHHAH SDAQGHLLFP GLPEQHGPHG SQNVLNGQMR LGLPGEVFGR SEQYRQVASP RTDPYSAAQL HNQYGPMNMN MGMNMAAAAA HHHHHHHHHP GAFFRYMRQQ CIKQELICKW IDPEQLSNPK KSCNKTFSTM HELVTHVSVE HVGGPEQSNH VCFWEECPRE GKPFKAKYKL VNHIRVHTGE KPFPCPFPGC GKVFARSENL KIHKRTHTGE KPFQCEFEGC DRRFANSSDR KKHMHVHTSD KPYLCKMCDK SYTHPSSLRK HMKVHESSPQ GSESSPAASS GYESSTPPGL VSPSAEPQSS SNLSPAAAAA AAAAAAAAAA VSAVHRGGGS GSGGAGGGSG GGSGSGGGGG GAGGGGGGSS GGGSGTAGGH SGLSSNFNEW YV **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:	ZIC2
Alternative Name:	ZIC2 (ZIC2 Products)
Background:	Zinc finger protein ZIC 2 (Zinc finger protein of the cerebellum 2),FUNCTION: Acts as a transcriptional activator or repressor. Plays important roles in the early stage of organogenesis of the CNS. Activates the transcription of the serotonin transporter SERT in uncrossed ipsilateral retinal ganglion cells (iRGCs) to refine eye-specific projections in primary visual targets. Its transcriptional activity is repressed by MDFIC. Involved in the formation of the ipsilateral retinal projection at the optic chiasm midline. Drives the expression of EPHB1 on ipsilaterally projecting growth cones. Binds to the minimal GLI-consensus sequence 5'-TGGGTGGTC-3'. Associates to the basal SERT promoter region from ventrotemporal retinal segments of retinal embryos.
Molecular Weight:	55.0 kDa
UniProt:	O95409
Pathways:	Tube Formation

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