Datasheet for ABIN3117810

STRA6 Protein (AA 1-667) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	STRA6
Protein Characteristics:	AA 1-667
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STRA6 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSSQPAGNQT SPGATEDYSY GSWYIDEPQG GEELQPEGEV PSCHTSIPPG LYHACLASLS ILVLLLLAML VRRRQLWPDC VRGRPGLPSP VDFLAGDRPR AVPAAVFMVL LSSLCLLLPD EDALPFLTLA SAPSQDGKTE APRGAWKILG LFYYAALYYP LAACATAGHT AAHLLGSTLS WAHLGVQVWQ RAECPQVPKI YKYYSLLASL PLLLGLGFLS LWYPVQLVRS FSRRTGAGSK GLQSSYSEEY LRNLLCRKKL GSSYHTSKHG FLSWARVCLR HCIYTPQPGF HLPLKLVLSA TLTGTAIYQV ALLLLVGVVP TIQKVRAGVT TDVSYLLAGF GIVLSEDKQE VVELVKHHLW ALEVCYISAL VLSCLLTFLV LMRSLVTHRT NLRALHRGAA LDLSPLHRSP HPSRQAIFCW MSFSAYQTAF ICLGLLVQQI IFFLGTTALA FLVLMPVLHG RNLLLFRSLE SSWPFWLTLA LAVILQNMAA HWVFLETHDG HPQLTNRRVL YAATFLLFPL NVLVGAMVAT WRVLLSALYN AIHLGQMDLS LLPPRAATLD PGYYTYRNFL KIEVSQSHPA MTAFCSLLLQ AQSLLPRTMA APQDSLRPGE EDEGMQLLQT KDSMAKGARP GASRGRARWG LAYTLLHNPT LQVFRKTALL

Product Details

	GANGAQP **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®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	STRA6
Alternative Name:	STRA6 (STRA6 Products)
Background:	Receptor for retinol uptake STRA6 (Retinol-binding protein receptor STRA6) (Stimulated by retinoic acid gene 6 protein homolog),FUNCTION: Functions as a retinol transporter. Accepts all-trans retinol from the extracellular retinol-binding protein RBP4, facilitates retinol transport across the cell membrane, and then transfers retinol to the cytoplasmic retinol-binding protein RBP1 (PubMed:9452451, PubMed:18316031, PubMed:22665496). Retinol uptake is enhanced by LRAT, an enzyme that converts retinol to all-trans retinyl esters, the storage forms of vitamin A (PubMed:18316031, PubMed:22665496). Contributes to the activation of a signaling cascade that depends on retinol transport and LRAT-dependent generation of retinol metabolites that then trigger activation of JAK2 and its target STAT5, and ultimately increase the expression of SOCS3 and inhibit cellular responses to insulin (PubMed:21368206, PubMed:22665496). Important for the homeostasis of vitamin A and its derivatives, such as retinoic acid (PubMed:18316031). STRA6-mediated transport is particularly important in the eye, and under conditions of dietary vitamin A deficiency (Probable). Does not transport retinoic acid (PubMed:18316031). {ECO:0000269|PubMed:18316031, ECO:0000269|PubMed:21901792, ECO:0000269|PubMed:22665496, ECO:0000269|PubMed:9452451, ECO:0000305}.
Molecular Weight:	73.5 kDa
UniProt:	Q9BX79
Pathways:	Feeding Behaviour

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

Application Details

	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

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