Datasheet for ABIN3136780

SLC27A4 Protein (AA 1-643) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SLC27A4
Protein Characteristics:	AA 1-643
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC27A4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MLLGASLVGA LLFSKLVLKL PWTQVGFSLL LLYLGSGGWR FIRVFIKTVR RDIFGGMVLL KVKTKVRRYL QERKTVPLLF ASMVQRHPDK TALIFEGTDT HWTFRQLDEY SSSVANFLQA RGLASGNVVA LFMENRNEFV GLWLGMAKLG VEAALINTNL RRDALRHCLD TSKARALIFG SEMASAICEI HASLEPTLSL FCSGSWEPST VPVSTEHLDP LLEDAPKHLP SHPDKGFTDK LFYIYTSGTT GLPKAAIVVH SRYYRMASLV YYGFRMRPDD IVYDCLPLYH SAGNIVGIGQ CLLHGMTVVI RKKFSASRFW DDCIKYNCTI VQYIGELCRY LLNQPPREAE SRHKVRMALG NGLRQSIWTD FSSRFHIPQV AEFYGATECN CSLGNFDSRV GACGFNSRIL SFVYPIRLVR VNEDTMELIR GPDGVCIPCQ PGQPGQLVGR IIQQDPLRRF DGYLNQGANN KKIANDVFKK GDQAYLTGDV LVMDELGYLY FRDRTGDTFR WKGENVSTTE VEGTLSRLLH MADVAVYGVE VPGTEGRAGM AAVASPISNC DLESFAQTLK KELPLYARPI FLRFLPELHK TGTFKFQKTE LRKEGFDPSV VKDPLFYLDA RKGCYVALDQ EAYTRIQAGE EKL

	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:	SLC27A4
Alternative Name:	Slc27a4 (SLC27A4 Products)
Background:	Long-chain fatty acid transport protein 4 (FATP-4) (Fatty acid transport protein 4) (Arachidonate--CoA ligase) (EC 6.2.1.15) (Long-chain-fatty-acid--CoA ligase) (EC 6.2.1.3) (Solute carrier family 27 member 4) (Very long-chain acyl-CoA synthetase 4) (ACSVL4) (EC 6.2.1.-),FUNCTION: Mediates the import of long-chain fatty acids (LCFA) into the cell by facilitating their transport across cell membranes (PubMed:10518211, PubMed:20448275). Appears to be the principal fatty acid transporter in small intestinal enterocytes (PubMed:20448275). Also functions as an acyl-CoA ligase catalyzing the ATP-dependent formation of fatty acyl-CoA using LCFA and very-long-chain fatty acids (VLCFA) as substrates, which prevents fatty acid efflux from cells and might drive more fatty acid uptake (By similarity). Plays a role in the formation of the epidermal barrier. Required for fat absorption in early embryogenesis (PubMed:11404000, PubMed:12821645, PubMed:15653672, PubMed:15699031). Probably involved in fatty acid transport across the blood barrier (By similarity). Indirectly inhibits RPE65 via substrate competition and via production of VLCFA derivatives like lignoceroyl-CoA. Prevents light-induced degeneration of rods and cones (PubMed:23407971). {ECO:0000250|UniProtKB:Q6P1M0, ECO:0000269|PubMed:10518211, ECO:0000269|PubMed:11404000, ECO:0000269|PubMed:12821645, ECO:0000269|PubMed:15653672, ECO:0000269|PubMed:15699031, ECO:0000269|PubMed:20448275, ECO:0000269|PubMed:23407971}.
Molecular Weight:	72.3 kDa
UniProt:	Q91VE0
Pathways:	Monocarboxylic Acid Catabolic Process

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

Application Details

	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