

Datasheet for ABIN7555300
SLC27A4 Protein (AA 1-643) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC27A4
Protein Characteristics:	AA 1-643
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC27A4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat SLC27A4 Protein expressed in mammalien cells.
Sequence:	MLLGASLVGV LLFSKLVLKL PWTQVGFSL LFLYLGSGGWR FIRVFIKTIR RDIFGGLVLL KVKAKVRQCL QERRTVPILF ASTVRRHPDK TALIFEGTDT HWTFRQLDEY SSSVANFLQA RGLASGDVAA IFMENRNEFV GLWLGMAKLG VEAALINTNL RRDALLHCLT TSRARALVFG SEMASAICEV HASLDPSLSL FCSGSWEPGA VPPSTEHLDP LLKDAPKHL PSCPDKGFTDK LFYIYTS GTT GLPKAAIVVH SRYRMAALV YGFRMRPND IVYDCLPLYH SAGNIVGIGQ CLLHGMTVVI RKKFSASRFW DDCIKYNCTI VQYIGELCRY LLNQPPREAE NQHQVRMALG NGLRQSIWTN FSSRFHIPQV AEFYGATECN CSLGNFDSQV GACGFNSRIL SFVYPIRLVR VNEDTMELIR GPDGVCIPCQ PGEPGQLVGR IIQKDPLRRF DGYLNQGANN KKIADKVFKK GDQAYLTGDV LVMDDELGYLY FRDRTGD TFR WKGENVSTTE VEGTLSRLLD MADVAVYGVE VPGTEGRAGM AAVASPTGNC DLERFAQVLE KELPLYARPI FLRLPELHK TGTYKFQKTE LRKEGFDPAI VKDPLFYLDA QKGRYVPLDQ EAYSRIQAGE EKL Sequence without tag. The

proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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 levels of long-chain fatty acids (LCFA) in the cell by facilitating their transport across cell membranes (PubMed:10518211, PubMed:12556534, PubMed:20448275, PubMed:21395585, PubMed:22022213). 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 (PubMed:22022213, PubMed:24269233). Plays a role in the formation of the

Target Details

epidermal barrier. Required for fat absorption in early embryogenesis (By similarity). Probably involved in fatty acid transport across the blood barrier (PubMed:21395585). Indirectly inhibits RPE65 via substrate competition and via production of VLCFA derivatives like lignoceroyl-CoA. Prevents light-induced degeneration of rods and cones (By similarity).
{ECO:0000250|UniProtKB:Q91VE0, ECO:0000269|PubMed:10518211, ECO:0000269|PubMed:12556534, ECO:0000269|PubMed:20448275, ECO:0000269|PubMed:21395585, ECO:0000269|PubMed:22022213, ECO:0000269|PubMed:24269233}.

Molecular Weight: 72.1 kDa

UniProt: [Q6P1M0](#)

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months