

Datasheet for ABIN7555329
SLC27A2 Protein (AA 1-620) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC27A2
Protein Characteristics:	AA 1-620
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC27A2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC27A2 Protein expressed in mammalian cells.
Sequence:	<p>MLSAIYTVLA GLLFLPLLVN LCCPYFFQDI GYFLKVAAVG RRVRSYGKRR PARTILRAFL EKARQTPHKP FLLFRDETLT YAQVDRRSNQ VARALHDHLG LRQGDCVALL MGNEPAYVWL WLGLVKLGA MACLNYNIRA KLLHCFQCC GAKVLLVSPE LQAAVEEILP SLKKDDVSIY YVSRSTNDG IDSFLDKVDE VSTEPESW RSEVTFSTPA LYIYTS GTTG LPKAAMITHQ RIWYGTGLTF VSGLKADDVI YITLPFYHSA ALLIGHGCI VAGATLALRT KFSASQFWDD CRKYNVTVIQ YIGELLRYLC NSPQKPNDRD HKVRLALGNG LRGD VWRQFV KRFGDICIYE FYAATEGNIG FMNYARKVGA VGRVNYLQKK IITYDLIKYD VEKDEPVRDE NGYCVRVPKG EVGLLVCKIT QLTPFNGYAG AKAQTEKKKL RDVFKKGDLY FNSGDLLMVD HENFIYFHDR VGDTFRWKGE NVATTEVADT VGLVDFVQEV NRYGVHVPDH EGRIGMASIK MKENHEFDGK KLFQHIADYL PSYARPRFLR IQDTIEITGT FKHRKMTLVE EGFNPAVIKD ALYFLDDTAK MYVPMTEIY NAISAKTLKL Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make</p>

Product Details

another tag necessary. In case you have a special request, please contact us.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: SLC27A2

Alternative Name: SLC27A2 ([SLC27A2 Products](#))

Background: Long-chain fatty acid transport protein 2 (Arachidonate--CoA ligase) (EC 6.2.1.15) (Fatty acid transport protein 2) (FATP-2) (Fatty-acid-coenzyme A ligase, very long-chain 1) (Long-chain-fatty-acid--CoA ligase) (EC 6.2.1.3) (Phytanate--CoA ligase) (EC 6.2.1.24) (Solute carrier family 27 member 2) (THCA-CoA ligase) (EC 6.2.1.7) (Very long-chain acyl-CoA synthetase) (VLACS) (VLCS) (EC 6.2.1.-) (Very long-chain-fatty-acid-CoA ligase),FUNCTION: Mediates the import of long-chain fatty acids (LCFA) into the cell by facilitating their transport across cell membranes, playing an important role in hepatic fatty acid uptake (PubMed:20530735, PubMed:22022213, PubMed:24269233, PubMed:10198260, PubMed:10749848, PubMed:11980911). 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

Target Details

cells and might drive more fatty acid uptake (PubMed:20530735, PubMed:22022213, PubMed:24269233, PubMed:10198260, PubMed:10749848, PubMed:11980911). Plays a pivotal role in regulating available LCFA substrates from exogenous sources in tissues undergoing high levels of beta-oxidation or triglyceride synthesis (PubMed:20530735). Can also activate branched-chain fatty acids such as phytanic acid and pristanic acid (PubMed:10198260). May contribute to the synthesis of sphingosine-1-phosphate (PubMed:24269233). Does not activate C24 bile acids, cholate and chenodeoxycholate (PubMed:11980911). In vitro, activates 3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestanate (THCA), the C27 precursor of cholic acid deriving from the de novo synthesis from cholesterol (PubMed:11980911). However, it is not critical for THCA activation and bile synthesis in vivo (PubMed:20530735).

{ECO:0000269|PubMed:10198260, ECO:0000269|PubMed:10749848, ECO:0000269|PubMed:11980911, ECO:0000269|PubMed:20530735, ECO:0000269|PubMed:22022213, ECO:0000269|PubMed:24269233}, FUNCTION: [Isoform 1]: Exhibits both long-chain fatty acids (LCFA) transport activity and acyl CoA synthetase towards very long-chain fatty acids (PubMed:21768100, PubMed:10198260). Shows a preference for generating CoA derivatives of n-3 fatty acids, which are preferentially trafficked into phosphatidylinositol (PubMed:21768100). {ECO:0000269|PubMed:10198260, ECO:0000269|PubMed:21768100}, FUNCTION: [Isoform 2]: Exhibits long-chain fatty acids (LCFA) transport activity but lacks acyl CoA synthetase towards very long-chain fatty acids. {ECO:0000269|PubMed:21768100}.

Molecular Weight: 70.3 kDa

UniProt: [O14975](#)

Pathways: [Monocarboxylic Acid Catabolic Process](#), [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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.

Handling

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months