Recombinant human Very long-chain acyl-CoA synthetase

Catalog No: #AP72785

Package Size: #AP72785-1 20ug #AP72785-2 100ug #AP72785-3 1mg

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Description

Product Name	Recombinant human Very long-chain acyl-CoA synthetase
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:283-620aaSequence Info:Cytoplasmic Domain
Other Names	Fatty acid transport protein 2 ;FATP-2Fatty-acid-coenzyme A ligase, very long-chain 1Long-chain-fatty-acid--CoA ligase (EC:6.2.1.3)Solute carrier family 27 member 2THCA-CoA ligaseVery long-chain-fatty-acid-CoA ligase
Accession No.	O14975
Uniprot	O14975
GeneID	11001;
Calculated MW	40.8 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	GATLALRTKFSASQFWDDCRKYNVTVIQYIGELLRYLCNSPQKPNDRDHKVRLALGNGLRGDVWRQFVKRFG DICIYEFYAATEGNIGFMNYARKVGAVGRVNYLQKKIITYDLIKYDVEKDEPVRDENGYCVRVPKGEVGLLVCKI TQLTPFNGYAGAKAQTEKKKLRDVFKKGDLYFNSGDLLMVDHENFIYFHDRVGDTFRWKGENVATTEVADTV GLVDFVQEVNVYGVHVPDHEGRIGMASIKMKENHEFDGKKLFQHIADYLPSYARPRFLRIQDTIEITGTFKHRK MTLVEEGFNPAVIKDALYFLDDTAKMYVPMTEDIYNAISAKTLKL
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Acyl-CoA synthetase probably involved in bile acid metabolism. Proposed to activate C27 precurors of bile acids to their CoA thioesters derivatives before side chain cleavage via peroxisomal beta-oxidation occurs. 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. Does not utilize C24 bile acids as substrates. In vitro, also activates long- and branched-chain fatty acids and may have additional roles in fatty acid metabolism. May be involved in translocation of long-chain fatty acids (LFCA) across mbranes .

References

Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S. , Yamamoto

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Note: This product is for in vitro research use only