Recombinant Escherichia coli Long-chain-fatty-acid--CoA ligase(fadD)

Catalog No: #AP70943

Package Size: #AP70943-1 20ug #AP70943-2 100ug #AP70943-3 1mg

Signalway Antibody
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Description

Product Name	Recombinant Escherichia coli Long-chain-fatty-acid--CoA ligase(fadD)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-561aaSequence Info:Full Length
Other Names	Long-chain acyl-CoA synthetase Short name:Acyl-CoA synthetase
Accession No.	P69451
Calculated MW	66.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MKKVWLNRYPADVPTEINPDRYQSLVDMFEQSVARYADQPAFVNMGEVMTFRKLEERSRAFAAYLQQGLGL KKGDRVALMMPNLLQYPVALFGILRAGMIVVNVNPLYTPRELEHQLNDSGASAIVIVSNFAHTLEKVVDKTAVQ HVILTRMGDQLSTAKGTVVNFVVKYIKRLVPKYHLPDAISFRSALHNGYRMQYVKPELVPEDLAFLQYTGGTTG VAKGAMLTHRNMLANLEQVNATYGPLLHPGKELVVTALPLYHIFALTINCLLFIELGGQNLLITNPRDIPGLVKEL AKYPFTAITGVNTLFNALLNNKEFQQLDFSSLHLSAGGGMPVQQVVAERWVKLTGQYLLEGYGLTECAPLVSV NPYDIDYHSGSIGLPVPSTEAKLVDDDDNEVPPGQPGELCVKGPQVMLGYWQRPDATDEIIKNGWLHTGDIAV MDEEGFLRIVDRKKDMILVSGFNVYPNEIEDVVMQHPGVQEVAAVGVPSGSSGEAVKIFVVKKDPSLTEESLV TFCRRQLTGYKVPKLVEFRDELPKSNVGKILRRELRDEARGKVDNKA
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

Catalyzes the esterification, concomitant with transport, of exogenous long-chain fatty acids into metabolically active CoA thioesters for subsequent degradation or incorporation into phospholipids. Activity is the highest with fatty acid substrates of > 10 carbon atoms

References

"The Escherichia coli fadK (ydiD) gene encodes an anerobically regulated short chain acyl-CoA synthetase."
Morgan-Kiss R.M., Cronan J.E.
J. Biol. Chem. 279:37324-37333(2004)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.