Recombinant Human DCI, GST-tagged

Cat. No. DCI-11852H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DCI protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-302a.a.
Description	This gene encodes a member of the hydratase/isomerase superfamily. The protein encoded is a key mitochondrial enzyme involved in beta-oxidation of unsaturated fatty acids. It catalyzes the transformation of 3-cis and 3-trans-enoyl-CoA esters arising during the stepwise degradation of cis-, mono-, and polyunsaturated fatty acids to the 2-trans-enoyl-CoA intermediates. Alternatively spliced transcript variants have been described.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	ECI1 enoyl-CoA delta isomerase 1 [Homo sapiens]

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Official Symbol	ECI1
Synonyms	ECI1; enoyl-CoA delta isomerase 1; DCI, dodecenoyl CoA isomerase , dodecenoyl Coenzyme A delta isomerase (3,2 trans enoyl Coenzyme A isomerase); enoyl-CoA delta isomerase 1, mitochondrial; 3; 2 trans enoyl CoA isomerase; dodecenoyl-CoA isomerase; D3,D2-enoyl-CoA isomerase; acetylene-allene isomerase; 3,2 trans-enoyl-CoA isomerase; delta3, delta2-enoyl-CoA isomerase; 3,2 trans-enoyl-Coenzyme A isomerase; delta(3),Delta(2)-enoyl-CoA isomerase; 3,2-trans-enoyl-CoA isomerase, mitochondrial; dodecenoyl-CoA delta isomerase (3,2 trans-enoyl-CoA isomerase); dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase); DCI;
Gene ID	1632
mRNA Refseq	NM_001178029
Protein Refseq	NP_001171500
MIM	600305
UniProt ID	P42126
Chromosome Location	16p13.3
Pathway	Fatty Acid Beta Oxidation, organism-specific biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Mitochondrial Fatty Acid Beta-Oxidation, organism-specific biosystem;

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Function	dodecenoyl-CoA delta-isomerase activity; dodecenoyl-CoA delta-isomerase activity; identical protein binding; intramolecular oxidoreductase activity;

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