

## Recombinant Human ACOX3, GST-tagged

Cat. No. ACOX3-9304H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human ACOX3 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

**Species** Human

**Source** E.coli

**ProteinLength** 332-624a.a.

**Description** Acyl-Coenzyme A oxidase 3 also known as pristanoyl -CoA oxidase (ACOX3) is involved in the desaturation of 2-methyl branched fatty acids in peroxisomes. Unlike the rat homolog, the human gene is expressed in very low amounts in liver such that its mRNA was undetectable by routine Northern-blot analysis or its product by immunoblotting or by enzyme activity measurements. However the human cDNA encoding a 700 amino acid protein with a peroxisomal targeting C-terminal tripeptide S-K-L was isolated and is thought to be expressed under special conditions such as specific developmental stages or in a tissue specific manner in tissues that have not yet been examined.

**Storage** The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

**Storage Buffer** 1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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## GENE INFORMATION

<b>Gene Name</b>	ACOX3 acyl-CoA oxidase 3, pristanoyl [ Homo sapiens ]
<b>Official Symbol</b>	ACOX3
<b>Synonyms</b>	ACOX3; acyl-CoA oxidase 3, pristanoyl; acyl Coenzyme A oxidase 3, pristanoyl; peroxisomal acyl-coenzyme A oxidase 3; BRCAcox; pristanoyl-CoA oxidase; branched-chain acyl-CoA oxidase; acyl-Coenzyme A oxidase 3, pristanoyl;
<b>Gene ID</b>	8310
<b>mRNA Refseq</b>	NM_001101667
<b>Protein Refseq</b>	NP_001095137
<b>MIM</b>	603402
<b>UniProt ID</b>	O15254
<b>Chromosome Location</b>	4p15.3
<b>Pathway</b>	Beta-oxidation of pristanoyl-CoA, organism-specific biosystem; Biosynthesis of unsaturated fatty acids, organism-specific biosystem; Biosynthesis of unsaturated fatty acids, conserved biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
<b>Function</b>	acyl-CoA dehydrogenase activity; flavin adenine dinucleotide binding; pristanoyl-CoA oxidase activity;

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