Datasheet for ABIN7317600

# ACOX1 Protein (His tag)

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## Overview

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| Quantity: | 100 µg |
| Target: | ACOX1 |
| Origin: | Human |
| Source: | Baculovirus infected Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This ACOX1 protein is labelled with His tag. |

## Product Details

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| Purpose: | Recombinant Human ACOX1/aox Protein (His Tag) |
| Sequence: | Met 1-Leu 660 |
| Characteristics: | A DNA sequence encoding the human ACOX1 (AAH08767.1) (Met 1-Leu 660) was expressed, with a polyhistidine tag at the N-terminus. |
| Purity: | > 85 % as determined by reducing SDS-PAGE. |
| Endotoxin Level: | < 1.0 EU per µg as determined by the LAL method. |

## Target Details

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| Target: | ACOX1 |
| Alternative Name: | ACOX1/aox (ACOX1 Products) |
| Background: | Background: Peroxisomal acyl-coenzyme A oxidase 1(ACOX1 or AOX) is the first enzyme of the fatty acid beta-oxidation pathway and belongs to the Acyl-CoA oxidase family. Human liver peroxisomes contain two acyl-CoA oxidases, namely, palmitoyl-CoA oxidase (ACOX1/AOX) and |

## Target Details

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| | a branched chain acyl-CoA oxidase. The palmitoyl-CoA oxidase (ACOX1/AOX) oxidizes the CoA esters of straight chain fatty acids and prostaglandins and donates electrons directly to molecular oxygen, thereby producing H2O2. Human ACOX1/AOX is a protein of 661-amino acids, including the carboxyl-terminal sequence(Ser-Lys-Leu) known as a minimal peroxisome-targeting signal. Human ACOX1/AOX, the first and rate-limiting enzyme of the peroxisomal β-oxidation pathway, has two isoforms including ACOX1a and ACOX1b, transcribed from a single gene. The human ACOX1b isoform is more effective than the ACOX1a isoform in reversing the Acox1 null phenotype in the mouse partly because of the Substrate utilization differences. Synonym: ACOX;PALMCOX;SCOX |
| Molecular Weight: | 76.7 kDa |
| Pathways: | Regulation of Lipid Metabolism by PPARalpha, Monocarboxylic Acid Catabolic Process |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Please refer to the printed manual for detailed information. |
| Buffer: | Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.0, 20 % glycerol, 3 mM DTT |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |