

## Acyl-CoA oxidase, Recombinant

Cat. No. DIA-292

Lot. No. (See product label)

### Introduction

**Description** In enzymology, an acyl-CoA oxidase (EC 1.3.3.6) is an enzyme that catalyzes the chemical reaction acyl-CoA + O<sub>2</sub> ⇌ trans-2, 3-dehydroacyl-CoA + H<sub>2</sub>O<sub>2</sub>. Thus, the two substrates of this enzyme are acyl-CoA and O<sub>2</sub>, whereas its two products are trans-2, 3-dehydroacyl-CoA and H<sub>2</sub>O<sub>2</sub>. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-CH group of donor with oxygen as acceptor. This enzyme participates in 3 metabolic pathways: fatty acid metabolism, polyunsaturated fatty acid biosynthesis, and ppar signaling pathway. It employs one cofactor, FAD.

**Synonyms** acyl-CoA oxidase; EC 1.3.3.6; fatty acyl-CoA oxidase; acyl coenzyme A oxidase; and fatty acyl-coenzyme A oxidase

### Product Information

**Appearance** Yellow powder, lyophilized

**EC Number** EC 1.3.3.6

**CAS No.** 61116-22-1

**Molecular Weight** About 90KDa (SDS-PAGE detection)

**Purity** 90% (SDS-PAGE test)

**Activity** more than 20u/mg solid

**Unit Definition** One unit is defined as the amount of enzyme required to catalyze the oxidation of acetyl-CoA to 1 umol of H<sub>2</sub>O<sub>2</sub> per minute at pH 7.5 and 37°C.

### Storage and Shipping Information

**Storage** 4°C, store at -20°C for long-term preservation.