

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 + O₂ ⇌ trans-2, 3-dehydroacyl-CoA + H₂O₂. Thus, the two substrates of this enzyme are acyl-CoA and O₂, whereas its two products are trans-2, 3-dehydroacyl-CoA and H₂O₂. 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 H₂O₂ per minute at pH 7.5 and 37°C.

Storage and Shipping Information

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