Creative Enzymes®

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.