

Native Arthrobacter sp. acyl-CoA oxidase

Cat. No. DIA-121

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

Source Arthrobacter sp.

Form Yellowish Freeze dried powder

EC Number EC 1.3.3.6

CAS No. 61116-22-1

Activity > 20 U/mg

Contaminants Catalase < 1.00%; Glucose oxidase < 0.01%

pH Stability 6.0-7.5 (37°C, 60 mins)

Thermal stability

Stable at 40°C and below (pH 7.0, 10 mins)

Usage and Packaging

Preparation

Useful for enzymatic determination of fatty acid when coupled with Acyl-CoA synthetase

Instructions

Storage and Shipping Information

Storage Store in tightly closed containers, desiccated, protected from light, at-20°C.

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

1/1