

Acyl-CoA oxidase

Chemical Properties

CAS No. : 61116-22-1

Formula:

Molecular Weight:

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Acyl-CoA oxidase (ACX) is a well-defined enzymatic protein that catalyzes the oxidation of fatty acyl-CoA substrates to 2-trans-enoyl-CoA intermediates, serving as a rate-limiting and essential step in the biosynthesis of jasmonic acid (JA), Acyl-CoA oxidase is particularly significant in model organisms such as Arabidopsis thaliana, Acyl-CoA oxidase contributes to lipid metabolism, stress signaling pathways, and the regulation of plant growth and defense responses.
Targets(IC50)	Others
In vitro	Method: Structural and sequence comparisons were conducted between peroxisomal Acyl-CoA oxidase and mitochondrial acyl-CoA dehydrogenases. Result: The analyses revealed distinct mechanistic features controlling electron transfer, oxygen reactivity, and substrate discrimination between peroxisomal and mitochondrial β -oxidation enzymes[1].

Reference

Arent S, et, al. Structure and function of plant acyl-CoA oxidases. Plant Physiol Biochem. 2008 Mar;46(3):292-301.

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