

fluoroacetyl-CoA thioesterase

Cat. No. EXWM-3562

Lot. No. (See product label)

Introduction

Description

Fluoroacetate is extremely toxic. It reacts with CoA to form fluoroacetyl-CoA, which substitutes for acetyl CoA and reacts with EC 2.3.3.1 (citrate synthase) to produce fluorocitrate, a metabolite of which binds very tightly to EC 4.2.1.3 (aconitase) and halts the TCA cycle. This enzyme hydrolyses fluoroacetyl-CoA before it can react with citrate synthase, and thus confers fluoroacetate resistance on the organisms that produce it. It has been described in the poisonous plant *Dichapetalum cymosum* and the bacterium *Streptomyces cattleya*, both of which are fluoroacetate producers.

Product Information

Form Liquid or lyophilized powder

EC Number EC 3.1.2.29

Reaction fluoroacetyl-CoA + H₂O = fluoroacetate + CoA

Notes This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.