Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.