

(methylthio)acryloyl-CoA hydratase

Cat. No. EXWM-4996

Lot. No. (See product label)

Introduction

Description

The enzyme is involved in the degradation of 3-(dimethylsulfonio)propanoate, an osmolyte produced by marine phytoplankton. Isolated from the bacterium Ruegeria pomeroyi.

Synonyms

DmdD

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.2.1.155

Reaction

3-(methylthio)acryloyl-CoA + 2 H₂O = acetaldehyde + methanethiol + CoA + CO₂ (overall reaction); (1a) 3-(methylthio)acryloyl-CoA + H₂O = 3-hydroxy-3-(methylthio)propanoyl-CoA; (1b) 3-hydroxy-3-(methylthio)propanoyl-CoA = 3-oxopropanoyl-CoA + methanethiol; (1c) 3-oxopropanoyl-CoA + H₂O = 3-oxopropanoate + CoA; (1d) 3-oxopropanoate = acetaldehyde + CO₂

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.