Creative Enzymes®

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