

(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 $3\text{-(methylthio)acryloyl-CoA} + 2\text{ H}_2\text{O} = \text{acetaldehyde} + \text{methanethiol} + \text{CoA} + \text{CO}_2$ (overall reaction); (1a) $3\text{-(methylthio)acryloyl-CoA} + \text{H}_2\text{O} = 3\text{-hydroxy-3-(methylthio)propanoyl-CoA}$; (1b) $3\text{-hydroxy-3-(methylthio)propanoyl-CoA} = 3\text{-oxopropanoyl-CoA} + \text{methanethiol}$; (1c) $3\text{-oxopropanoyl-CoA} + \text{H}_2\text{O} = 3\text{-oxopropanoate} + \text{CoA}$; (1d) $3\text{-oxopropanoate} = \text{acetaldehyde} + \text{CO}_2$

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.