

6-oxocyclohex-1-ene-1-carbonyl-CoA hydratase

Cat. No. EXWM-4729

Lot. No. (See product label)

Introduction

Description

The enzyme, which participates in the anaerobic benzoyl-CoA degradation pathway in certain organisms, catalyses the addition of one molecule of water to the double bond of 6-oxocyclohex-1-ene-1-carbonyl-CoA followed by the hydrolytic C-C cleavage of the alicyclic ring.

Synonyms

6-oxocyclohex-1-ene-1-carbonyl-CoA hydrolase; 6-oxocyclohex-1-ene-1-carbonyl-CoA hydrolase (decyclizing)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.7.1.21

Reaction

6-oxocyclohex-1-ene-1-carbonyl-CoA + 2 H₂O = 3-hydroxypimeloyl-CoA (overall reaction); (1a) 6-oxocyclohex-1-ene-1-carbonyl-CoA + H₂O = 2-hydroxy-6-oxocyclohexane-1-carbonyl-CoA; (1b) 2-hydroxy-6-oxocyclohexane-1-carbonyl-CoA + H₂O = 3-hydroxypimeloyl-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.