

acireductone dioxygenase [iron(II)-requiring]

Cat. No. EXWM-0573

Lot. No. (See product label)

Introduction

Description

Requires iron(II). If Ni²⁺ is bound instead of iron(II), the reaction catalysed by EC 1.13.11.53, acireductone dioxygenase (Ni²⁺-requiring), occurs instead. The enzyme from the bacterium *Klebsiella oxytoca* (formerly *Klebsiella pneumoniae*) ATCC strain 8724 is involved in the methionine salvage pathway.

Synonyms

ARD'; 2-hydroxy-3-keto-5-thiomethylpent-1-ene dioxygenase (ambiguous); acireductone dioxygenase (ambiguous); E-2'; E-3 dioxygenase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.13.11.54

Reaction

1,2-dihydroxy-5-(methylthio)pent-1-en-3-one + O₂ = 4-(methylthio)-2-oxobutanoate + formate

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.