Creative Enzymes®

acireductone dioxygenase (Ni2+-requiring)

Cat. No. EXWM-0572

Lot. No. (See product label)

Introduction

Description Requires Ni2+. If iron(II) is bound instead of Ni2+, the reaction catalysed by EC 1.13.11.54, acireductone dioxygenase [iron(II)-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

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.13.11.53

Reaction 1,2-dihydroxy-5-(methylthio)pent-1-en-3-one + O2 = 3-(methylthio)propanoate + formate + CO

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 ℃.