

protocatechuate 3,4-dioxygenase

Cat. No. EXWM-0549

Lot. No. (See product label)

Introduction

Description

Requires Fe³⁺. The enzyme, which participates in the degradation of aromatic compounds, catalyses the intradiol addition of both oxygen atoms from molecular oxygen, resulting in ortho-cleavage of the aromatic ring. The type of cleavage leads to mineralization via the intermediate 3-oxoadipate.

Synonyms

protocatechuate oxygenase; protocatechuic acid oxidase; protocatechuic 3,4-dioxygenase; protocatechuic 3,4-oxygenase; protocatechuate:oxygen 3,4-oxidoreductase (deacyclizing)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.13.11.3

CAS No.

9029-47-4

Reaction

3,4-dihydroxybenzoate + O₂ = 3-carboxy-cis,cis-muconate

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.