

## protocatechuate 3,4-dioxygenase

Cat. No. EXWM-0549

Lot. No. (See product label)

### Introduction

#### Description

Requires Fe<sup>3+</sup>. 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 (decyclizing)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.13.11.3

#### CAS No.

9029-47-4

#### Reaction

3,4-dihydroxybenzoate + O<sub>2</sub> = 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.