

2,3-dihydroxybenzoate 3,4-dioxygenase

Cat. No. EXWM-0533

Lot. No. (See product label)

Introduction

Description

This enzyme belongs to the family of oxidoreductases, specifically those acting on single donors with O₂ as oxidant and incorporation of two atoms of oxygen into the substrate (oxygenases). The oxygen incorporated need not be derived from O₂. The systematic name of this enzyme class is 2,3-dihydroxybenzoate:oxygen 3,4-oxidoreductase (decyclizing). Other names in common use include o-pyrocatechuate oxygenase, 2,3-dihydroxybenzoate 1,2-dioxygenase, 2,3-dihydroxybenzoic oxygenase, and 2,3-dihydroxybenzoate oxygenase. This enzyme participates in benzoate degradation via hydroxylation.

Synonyms

o-pyrocatechuate oxygenase; 2,3-dihydroxybenzoate 1,2-dioxygenase; 2,3-dihydroxybenzoic oxygenase; 2,3-dihydroxybenzoate oxygenase; 2,3-dihydroxybenzoate:oxygen 3,4-oxidoreductase (decyclizing)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.13.11.14

CAS No.

9032-31-9

Reaction

2,3-dihydroxybenzoate + O₂ = 3-carboxy-2-hydroxymuconate semialdehyde

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.