Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.