Creative Enzymes®

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 (decyclizing)

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