

catechol oxidase

Cat. No. EXWM-0475

Lot. No. (See product label)

Introduction

Description

A type 3 copper protein that catalyses exclusively the oxidation of catechol (i.e., o-diphenol) to the corresponding o-quinone. The enzyme also acts on a variety of substituted catechols. It is different from tyrosinase, EC 1.14.18.1, which can catalyse both the monooxygenation of monophenols and the oxidation of catechols.

Synonyms

diphenol oxidase; o-diphenolase; polyphenol oxidase; pyrocatechol oxidase; dopa oxidase; catecholase; o-diphenol:oxygen oxidoreductase; o-diphenol oxidoreductase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.10.3.1

CAS No.

9002-10-2

Reaction

$2 \text{ catechol} + \text{O}_2 = 2 \text{ 1,2-benzoquinone} + 2 \text{ H}_2\text{O}$

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.