

Native *Arthrobacter globiformis* Choline oxidase

Cat. No. DIA-139

Lot. No. (See product label)

Introduction

Description

In enzymology, a choline oxidase (EC 1.1.3.17) is an enzyme that catalyzes the chemical reaction $\text{choline} + \text{O}_2 \leftrightarrow \text{betaine aldehyde} + \text{H}_2\text{O}_2$. Thus, the two substrates of this enzyme are choline and O_2 , whereas its two products are betaine aldehyde and H_2O_2 .

Synonyms

choline oxidase; EC 1.1.3.17; choline: oxygen 1-oxidoreductase

Product Information

Source

Arthrobacter globiformis

Appearance

Yellow amorphous powder

Form

Freeze dried powder

EC Number

EC 1.1.3.17

CAS No.

9028-67-5

Activity

8-20 U/mg

Contaminants

Catalase/Choline oxidase ratio < 10:1; Glucose oxidase < 0.01%

pH Stability

7.5-9.0 (37°C, 30 mins)

Optimum pH

7.5-8.0

Thermal stability

Stable at 40°C and below (pH 7.5, 10 mins)

Storage and Shipping Information

Storage

Store in tightly closed containers, desiccated, protected from light, at -20°C.