# 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 O2, whereas its two products are betaine aldehyde and H2O2.

**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.