

Bilirubin oxidase from Microorganism

Cat. No. NATE-1713

Lot. No. (See product label)

Introduction

Description In enzymology, a bilirubin oxidase (EC 1.3.3.5) is an enzyme that catalyzes the chemical reaction:2

> bilirubin + O2↔ 2 biliverdin + 2 H2O. Thus, the two substRates of this enzyme are bilirubin and O2, whereas its two products are biliverdin and H2O. This enzyme belongs to the family of oxidoreductases,

to be specific those acting on the CH-CH group of donor with oxygen as acceptor. This enzyme

participates in porphyrin and chlorophyll metabolism.

Synonyms bilirubin oxidase M-1; bilirubin oxidase; EC 1.3.3.5; bilirubin: oxygen oxidoreductase

Product Information

Source Microorganism

Form Blue powder, lyophilized

EC Number EC 1.3.3.5

CAS No. 80619-01-8

Molecular

61 kDa (SDS-PAGE)

Weight

Activity >500U/mg or >20U/mg

5.2

Isoelectric

point

7.5~10.5 (25°C, 18hr) pH Stability

Optimum pH 7.5

Thermal

< 50°C(pH 7.0, 30min)

stability

Optimum

37°C

temperature

Michaelis

1.2×10^-4 M(Bilirubin, pH 8.0)

Constant

Inhibitors NaN3, KCN

Unit

One unit will convert one micromole of bilirubin to biliverdin per min at pH 8.0 at 25°C.

Definition

Notes INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC

APPLICATIONS.

Storage and Shipping Information

Store at -20°C. Storage

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