



Product Overview

Description

In enzymology, a bilirubin oxidase (EC 1.3.3.5) is an enzyme that catalyzes the chemical reaction: 2bilirubin + $O_2 \rightarrow 2$ biliverdin + $2H_2O$. Thus, the two substrates of this enzyme are bilirubin and O_2 , whereas its two products are biliverdin and O_2 . This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-CH group of donor and with oxygen as acceptor.

Product Information

| Product Name | Bilirubin oxidase from Microorganism |
|---------------------|--------------------------------------|
| Cat No. | NATE-1713 |
| EC No. | EC 1.3.3.5 |
| CAS No. | 80619-01-8 |
| Source | Microorganism |
| Form | Blue powder, lyophilized |
| Activity | >500 U/mg or >20 U/mg |
| Storage | Store at -20°C |
| Michaelis Constant | 1.2×10-4 M (Bilirubin, pH 8.0) |
| pH Stability | 7.5 |
| Optimum temperature | 37°C |
| Thermal stability | < 50°C (pH 7.0, 30 min) |

Application

Various liver diseases can cause bilirubin metabolic disorders. Increasing bilirubin will lead to the appearance of jaundice. Therefore, bilirubin concentration is an important indicator of liver function. Bilirubin oxidase can be used in clinical diagnosis for jaundice disease and is expected to be used for neonatal jaundice and hyperbilirubinemia treatment.

Creative Enzymes provides various <u>bilirubin oxidase</u> products for research and industry use. Please <u>contact us</u> for any product needs.

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