

hydroxylamine oxidase (cytochrome)

Cat. No. EXWM-1628

Lot. No. (See product label)

Introduction

Description The enzyme from the heterotrophic nitrifying bacterium Paracoccus denitrificans

contains three to five non-heme, non-iron-sulfur iron atoms and interacts with cytochrome c556 and pseudoazurin. Under anaerobic conditions in vitro only nitrous oxide is formed. Presumably nitroxyl is released and combines with a second nitroxyl to give nitrous oxide and water. When oxygen is present, nitrite is

formed.

Synonyms HAO (ambiguous); hydroxylamine oxidoreductase (ambiguous); hydroxylamine

oxidase (misleading)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.7.3.6

CAS No. 9075-43-8

Reaction hydroxylamine + O2 = nitrite + H2O + H+ (overall reaction); (1a) hydroxylamine +

2 ferricytochrome c = nitroxyl + 2 ferrocytochrome c + 2 H+; (1b) nitroxyl + 2 ferrocytochrome c + 02 + H + = nitrite + 2 ferricytochrome c + H2O (spontaneous)

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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.

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