

hydroxylamine dehydrogenase

Cat. No. EXWM-1621

Lot. No. (See product label)

Introduction

Description

The enzymes from the nitrifying bacterium *Nitrosomonas europaea* and the methylotrophic bacterium *Methylococcus capsulatus* are hemoproteins with seven c-type hemes and one specialized P-460-type heme per subunit. The enzyme converts hydroxylamine to nitrite via an enzyme-bound nitroxyl intermediate. While nitrite is the main product, the enzyme from *Nitrosomonas europaea* can produce nitric oxide as well.

Synonyms

HAO (ambiguous); hydroxylamine oxidoreductase (ambiguous); hydroxylamine oxidase (misleading)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.7.2.6

CAS No.

9075-43-8

Reaction

(1) hydroxylamine + H₂O + 4 ferricytochrome c = nitrite + 4 ferrocyanochrome c + 5 H⁺; (2) hydroxylamine + 3 ferricytochrome c = nitric oxide + 3 ferrocyanochrome c + 3 H⁺

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.