Creative Enzymes®

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 ferrocytochrome c + 5 H+; (2) hydroxylamine + 3 ferricytochrome c = nitric oxide + 3 ferrocytochrome 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.