

Recombinant Pseudomonas sp. Formaldehyde Dehydrogenase, **C-His tag**

Cat. No. EXWM-1149

Lot. No. (See product label)

Introduction

Description

In enzymology, a formaldehyde dehydrogenase (EC 1.2.1.46) is an enzyme that catalyzes the chemical reaction formaldehyde + NAD+ + H2O ≠ formate + NADH + H+ The 3 substrates of this enzyme are formaldehyde, NAD+, and H2O, whereas its 3 products are formate, NADH, and H+. This enzyme belongs to the family of oxidoreductases, specifically those acting on the aldehyde or oxo group of donor with NAD+ or NADP+ as acceptor. The systematic name of this enzyme class is formaldehyde:NAD+ oxidoreductase. Other names in common use include NAD+-linked formaldehyde dehydrogenase, snitrosoglutathione reductase (GSNO reductase) and NAD+-dependent formaldehyde dehydrogenase. This enzyme participates in methane metabolism.

Product Information

Species Pseudomonas sp.

E. coli Source

Form Liquid

EC 1.2.1.46 EC Number

CAS No. 9028-84-6

Molecular

42.91 kDa

Weight

Purity >95% by SDS-PAGE

Activity 2 U/mg

Buffer PBS, pH 7.4

Definition

Unit

One unit will oxidize 1.0 μ mole of formaldehyde to formic acid per minute at pH 7.5 at 37°C.

Reaction formaldehyde + NAD+ + H2O = formate + NADH + 2 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 under sterile conditions at -80°C. It is recommended that the protein be aliquoted for optimal

storage. Avoid repeated freeze-thaw cycles.

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