

**Formaldehyde Dehydrogenase from Pseudomonas sp.**

**Product Code:** 182621

**EC no:** 1.2.1.46

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**SKU:** 182621

**Category:** [Enzymes](#)

## PRODUCT DESCRIPTION

### SPECIFICATIONS:

**EC 1.2.1.46**

**Product name:** Formaldehyde: NAD+ oxidoreductase

**Appearance:** White amorphous powder, lyophilized

**Activity:** Grade II, 1.0 U/mg-solid or more (contains approx. 70% stabilizers)

**Contaminants:** NADH oxidase:  $\leq 1.0 \times 10^{-1}$  %

**Stabilizers:** Mg<sup>2+</sup>, Ca<sup>2+</sup>, bovine serum albumin, glycine, lysine

**Stability:** Stable at - 20 °C for at least one year

**Molecular weight:** Approx. 150,000 (by gel filtration)

**Isoelectric point** 5.25

**Michaelis constants:**  $8.0 \times 10^{-5}$  M (HCHO),  $1.2 \times 10^{-4}$  M (NAD<sup>+</sup>)

**Structure:** 2 subunits (75,000) per mol of enzyme

**Inhibitors:** Chelating agents, Ni<sup>2+</sup>, Cd<sup>2+</sup>, Hg<sup>2+</sup>, PCMB, ionic detergents

**Optimum pH:** 9.0

**Optimum temperature:** 40°C

**pH Stability:** pH 8.0 – 10.0 (30°C, 16hr)

**Thermal stability:** Below 40 °C (pH 7.5, 30min)