Creative Enzymes®

Native Candida boidinii Formate Dehydrogenase

Cat. No. NATE-0254

Lot. No. (See product label)

Introduction

Description	Formate dehydrogenase is involved in the stress response of plants and catalyzes the reduction of NAD+ to NADH.
Applications	Formate Dehydrogenase (FDH) is used for diagnostics in large scale industrial pr ocesses. Its used in the production of an unnatural amino acid, tert-L-leucine, a component of some HIV protease and matrix metalloprotease inhibitors.
Synonyms	EC 1.2.1.2; 9028-85-7; formate-NAD oxidoreductase; FDH; FDH I; FDH II; N-FDH; formic hydrogen-lyase; formate hydrogenlyase; hydrogenlyase; NAD-linked formate dehydrogenase; NAD-dependent formate dehydrogenase; formate dehydrogenase (NAD); NAD-formate dehydrogenase; formate benzyl-viologen oxidoreductase; formic acid dehydrogenase

Product Information

Source	Candida boidinii
Form	Type I, lyophilized powder; Type II, powder; Type III, clear brown liquid.
EC Number	EC 1.2.1.2
CAS No.	9028-85-7
Activity	Type I, 5.0-15.0 units/mg protein; Type II, 0.3-0.6 units/mg; Type III, ~50 U/mL.
Unit Definition	One unit will oxidize 1.0 µmole of formate to CO2 per min in the presence of β-NAD at pH 7.6 at 37°C.

Storage and Shipping Information

Storage	−20°C