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 CO_2 per min in the presence of β-NAD at pH 7.6 at 37°C.

Storage and Shipping Information

Storage −20°C