

Native Sporosarcina sp. L-Phenylalanine Dehydrogenase

Cat. No. NATE-0558

Lot. No. (See product label)

Introduction

Description Phenylalanine dehydrogenase is a member of a large family of amino-acid

dehydrogenases, which includes glutamate dehydrogenase, alanine

dehydrogenase, leucine dehydrogenase, lysine $\mbox{\it \&-}$ dehydrogenase, and meso-a, $\mbox{\it \&-}$

diaminopimelate D-dehydrogenase. The three known gene sequences are

octomers. It has a two-domain, three-dimensional structure.

Applications L-Phenylalanine dehydrogenase is a NAD+-dependent oxidoreductase that

catalyzes the reversible, oxidative deamination of L-phenylalanine which results in its degradation. L-Phenylalanine dehydrogenase is used to study phenylalanine

metabolism and phenylalanine, tyrosine and tryptophan biosynthesis

Synonyms phenylalanine dehydrogenase; EC 1.4.1.20; L-phenylalanine dehydrogenase; PHD;

69403-12-9

Product Information

Source Sporosarcina sp.

Form lyophilized powder

EC Number EC 1.4.1.20

CAS No. 69403-12-9

Activity > 6 units/mg solid

Unit Definition One unit will oxidize 1.0 µmole of L-phenylalanine per min at pH 10.5 at 30°C in

the presence of β -NAD.

Storage and Shipping Information

Storage −20°C

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