

Native Streptococcus faecalis L-Phenylalanine decarboxylase

Cat. No. NATE-0415

Lot. No. (See product label)

Introduction

Description In enzymology, a phenylalanine decarboxylase (EC 4.1.1.53) is an enzyme that

catalyzes the chemical reaction:L-phenylalanine↔ phenylethylamine + CO2. Hence,

this enzyme has one substrate, L-phenylalanine, and two products, phenylethylamine and CO2. This enzyme belongs to the family of lyases,

specifically the carboxy-lyases, which cleave carbon-carbon bonds. This enzyme participates in phenylalanine metabolism. It employs one cofactor, pyridoxal

phosphate.

Synonyms phenylalanine decarboxylase; L-phenylalanine decarboxylase; aromatic L-amino

acid decarboxylase; L-phenylalanine carboxy-lyase; EC 4.1.1.53; 9075-72-3

Product Information

Source Streptococcus faecalis

Form Dried cells from which activity can be extracted

EC Number EC 4.1.1.53

CAS No. 9075-72-3

Activity > 5 units/g solid

Unit Definition One unit will liberate 1.0 µmole of CO2 from L-phenylalanine per min at pH 5.5 at

37°C.

Storage and Shipping Information

Storage −20°C

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