

Native Crotalus atrox L-Amino Acid Oxidase

Cat. No. NATE-0367

Lot. No. (See product label)

Introduction

Description In enzymology, an L-amino acid oxidase (LAAO) (EC 1.4.3.2) is an enzyme that

catalyzes the chemical reaction:an L-amino acid + H2O + O2↔ a 2-oxo acid + NH3 + H2O2. The enzyme was first described in 1944 by A. Zeller and A. Maritz. Not only are LAAOs quite variable in terms of molecular mass, they also vary widely regarding stability. In a similar vein, this enzyme performs in a myriad of biological activities including apoptosis-induction, edema-induction, hemorrhaging, and

inhibition or induction of platelet aggregation.

Applications L-amino acid oxidase is used to convert L-amino acids to their corresponding α -

keto acids. This product is from Crotalus atrox. One unit will oxidatively deaminate 1.0 μmole of L-phenylalanine per min at pH 6.5 at 37°C. L-amino acid oxidase, from Creative Enzymes, has been used in leucine aminopeptidase (LAP) activity assays

Synonyms L-amino acid oxidase; LAAO; L-AAO; EC 1.4.3.2; 9000-89-9; ophio-amino-acid

oxidase; L-amino-acid:oxygen oxidoreductase (deaminating)

Product Information

Source Crotalus atrox (Western Diamondback Rattlesnake)

Form dried venom

EC Number EC 1.4.3.2

CAS No. 9000-89-9

Activity > 0.10 unit/mg solid

Unit Definition One unit will oxidatively deaminate 1.0 μmole of L-phenylalanine per min at pH 6.5

at 37°C. (L-Leucine is deaminated at the same rate at pH 7.8 at 37°C.)

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Storage and Shipping Information

Storage −20°C

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