

# Native Crotalus durissus venom L-Amino Acid Oxidase

Cat. No. NATE-0368

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 (LAAO) is used to convert L-amino acids to their corresponding  $\alpha$ -keto acids. This

product is from Crotalus durissus venom. 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 durissus venom

Form ammonium sulfate suspension; Suspension in 3.2 M (NH4)2SO4 pH approx. 6

**EC Number** EC 1.4.3.2

**CAS No.** 9000-89-9

**Activity** 3-8 units/mg protein

Unit One unit will oxidatively deaminate 1.0 µmole of L-phenylalanine per min at pH 6.5 at 37°C. (L-Leucine is

**Definition** deaminated at the same rate at pH 7.8 at 37°C.)

## Usage and Packaging

**Package** Package size based on protein content

### Storage and Shipping Information

**Storage** 2-8°C

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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