

## D-amino acid oxidase from Human, Recombinant

Cat. No. NATE-1653

Lot. No. (See product label)

## Introduction

**Description** D-amino-acid oxidase (DAAO) is a peroxisomal enzyme which uses flavin adenine

dinucleotide (FAD) as a cofactor and oxidizes D-amino acids to the corresponding imino acids, producing ammonia and hydrogen peroxide. Its substrates include a wide variety of D-amino acids, but it is inactive on the naturally occurring L-amino acids. It has been suggested that it is involved in acid base balance in the kidney or it could act as a detoxifying agent which removes D-amino acids accumulated

during aging.

**Synonyms** DAAO; DAO; OXDA; DAMOX; D-Amino Acid Oxidase; EC 1.4.3.3; 9000-88-8; ophio-

amino-acid oxidase; L-amino acid:O2 oxidoreductase

## **Product Information**

**Species** Human

**Source** E. coli

**Form** Liquid

Formulation In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

**EC Number** EC 1.4.3.3

Molecular Weight 41.6 kDa

**Purity** > 90% by SDS-PAGE

**Activity** > 3.5 units/mg

**Concentration** 0.5 mg/ml

Unit Definition One unit will oxidatively deaminate 1.0 umole of D-alanine to pyruvate per minute

at pH 8.5 at 37°C, in the presence of catalase.

## Storage and Shipping Information

**Store** Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store

at -70°C. Avoid repeated freeze/thaw cycles.

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