

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 41.6 kDa

Weight

Purity

> 90% by SDS-PAGE

Activity > 3.5 units/mg

Concentration 0.5 mg/ml

Unit One unit will oxidatively deaminate 1.0 umole of D-alanine to pyruvate per minute at pH 8.5 at 37°C,

Definition in the presence of catalase.

Storage and Shipping Information

Storage 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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1/1