

## L-Glutamate Oxidase from Streptomyces sp., Recombinant

Cat. No. NATE-0393

Lot. No. (See product label)

## Introduction

Description In enzymology, a L-glutamate oxidase is an enzyme that catalyzes the chemical reaction:L-glutamate +

O2 + H2O↔ 2-oxoglutarate + NH3 + H2O2. The 3 substrates of this enzyme are L-glutamate, O2, and H2O, whereas its 3 products are 2-oxoglutarate, NH3, and H2O2. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-NH2 group of donors with oxygen as acceptor. It

employs one cofactor, FAD.

**Synonyms** L-glutamate oxidase; EC 1.4.3.11; 39346-34-4; glutamate (acceptor) dehydrogenase; glutamate oxidase;

glutamic acid oxidase; glutamic dehydrogenase (acceptor); L-glutamic acid oxidase

## **Product Information**

**Species** Streptomyces sp.

**Source** E. coli

**Form** lyophilized powder

**EC Number** EC 1.4.3.11

**CAS No.** 39346-34-4

**Activity** > 5.0 unit/mg solid

**Unit** One unit will form 1.0  $\mu$ mole of  $\alpha$ -ketoglutaric acid from L-glutamic acid per min at pH 7.4 at 30°C.

Definition

## Storage and Shipping Information

**Storage** 2-8°C

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