

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 Definition One unit will form 1.0 μ mole of α -ketoglutaric acid from L-glutamic acid per min at

pH 7.4 at 30°C.

Storage and Shipping Information

Storage 2-8°C

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