Creative Enzymes®

Native Trichoderma viride Lysine Oxidase

Cat. No. NATE-0426

Lot. No. (See product label)

Introduction

Description In enzymology, a L-lysine oxidase (EC 1.4.3.14) is an enzyme that catalyzes the chemical reaction:L-lysine + O2 + H2O↔ 6-amino-2-oxohexanoate + NH3 + H2O2. The 3 substrates of this enzyme are L-lysine, O2, and H2O, whereas its 3 products are 6-amino-2-oxohexanoate, 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. This enzyme participates in lysine degradation.

Synonyms L-lysine α-oxidase; L-lysyl-α-oxidase; L-lysine oxidase; EC 1.4.3.14; 70132-14-8

Product Information

Source Trichoderma viride

Form lyophilized powder; Contains phosphate buffer salts and stabilizer

EC Number EC 1.4.3.14

CAS No. 70132-14-8

Activity 20-60 units/mg protein

Unit Definition One unit will catalyze the formation of 1 µmole of 6-amino-2-oxohexanoic acid from L-lysine per min at 37°C at pH 8.0.

Storage and Shipping Information

Storage 2-8°C