

glycine oxidase

Cat. No. EXWM-1473

Lot. No. (See product label)

Introduction

Description

A flavoenzyme containing non-covalently bound FAD. The enzyme from *Bacillus subtilis* is active with glycine, sarcosine, N-ethylglycine, D-alanine, D- α -aminobutyrate, D-proline, D-pipecolate and N-methyl-D-alanine. It differs from EC 1.4.3.3, D-amino-acid oxidase, due to its activity on sarcosine and D-pipecolate. The intermediate 2-iminoacetate is used directly by EC 2.8.1.10, thiazole synthase.

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.4.3.19

CAS No.

39307-16-9

Reaction

glycine + H₂O + O₂ = glyoxylate + NH₃ + H₂O₂ (overall reaction); (1a) glycine + O₂ = 2-iminoacetate + H₂O₂; (1b) 2-iminoacetate + H₂O = glyoxylate + NH₃

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.