Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.