Creative Enzymes®

Native Mushroom Tyrosinase

Cat. No. NATE-0726

Lot. No. (See product label)

Introduction

Description	Tyrosinase is a copper-containing oxidase, which has activity for both catechols and cresol. It is responsible for browning reactions. This enzyme is reported to have two binding sites for aromatic substrates and a different binding site for oxygen-copper.
Applications	Tyrosinase activity has been assessed in a study that developed an alternative therapeutic agent for treating hyperpigmentation. Tyrosinase has also been used in a study to investigate the ocul ocutaneous albinism phenotype in the Pakistani population.
Synonyms	Tyrosinase; EC 1.14.18.1; 9002-10-2; monophenol monooxygenase; phenolase; monophenol oxidase; cresolase; monophenolase; tyrosine-dopa oxidase; monophenol monooxidase; monophenol dihydroxyphenylalanine:oxygen oxidoreductase; N-acetyl-6-hydroxytryptophan oxidase; monophenol, dihydroxy-L-phenylalanine oxygen oxidoreductase; o-diphenol:O2 oxidoreductase; phenol oxidase

Product Information

Source	Mushroom
Form	lyophilized powder
EC Number	EC 1.14.18.1
CAS No.	9002-10-2
Molecular Weight	128 kDa by sedimentation velocity diffusion; 133 kDa by light-scattering measurements, and 119.5 kDa by electrophoresis.
Activity	700 unit/mg solid
Isoelectric point	4.7-5
Optimum pH	6-7
Unit Definition	One unit = ΔA280 of 0.001 per min at pH 6.5 at 25°C in 3 mL reaction mix containing L-tyrosine.

Storage and Shipping Information

Storage	−20°C