

Active Native Mushrooms (*Agaricus bisporus*) TY Protein

Cat. No. TY-07M Lot. No. (See product label)

SPECIFICATION

Product Overview	Native Polyphenol Oxidase purified from Mushroom (<i>Agaricus bisporus</i>). Optimal pH: 6.0-7.0. Extinction Coefficient: 24.9 (immediately after purification)
Species	Mushrooms (<i>Agaricus bisporus</i>)
Source	Mushroom
Description	Polyphenol oxidase (tyrosinase) (TY) is a bifunctional, copper-containing oxidase having both catecholase and cresolase activity. The enzyme is a tetramer containing four gram atoms of copper per molecule, and two binding sites for aromatic compounds including phenolic substrates. There is also a distinctly different binding site for oxygen, the copper site. The copper is probably in the cuprous state; inactivation of the enzyme is associated with increase in Cu ²⁺ .
Form	Lyophilized powder
Bio-activity	≥500 units/mg dry weight
Molecular Mass	128 kDa
Stability	The lyophilized preparation is stable for 6-12 months when stored at -20 centigrade.
Storage	Store at -20 centigrade.

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Shipping	Ice Pack.
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GENE INFORMATION

Official Symbol	TY
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Synonyms	Polyphenol oxidase; tyrosinase; TY
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