

Native Murine Catalase

Cat. No. NATE-0110

Lot. No. (See product label)

Introduction

Description Catalase activates the decomposition of hydrogen peroxide, a reactive oxygen species, into water and

oxygen. It functions as a natural antioxidant, protecting cells against oxidative damage to proteins, lipids and nucleic acids. Catalase has also been used to study the role reactive oxygen species play in gene

expression and apoptosis.

Synonyms EC 1.11.1.6; Catalase; catalase; equilase; caperase; optidase; catalase-peroxidase; CAT; H2O2:H2O2

oxidoreductase

Product Information

Species Murine

Source murine liver

Form ammonium sulfate suspension

EC Number EC 1.11.1.6

CAS No. 9001-05-2

Molecular

tetramer mol wt ~250 kDa

Weight

Activity > 500 units/mg protein

Optimum

~7.0

pН

Buffer Suspension in 2.7 M (NH4)2SO4 solution, pH 6.5

Pathway Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Cellular responses to stress, organism-

specific biosystem; FoxO signaling pathway, organism-specific biosystem

Function NADP binding; aminoacylase activity; antioxidant activity

 $\textbf{\textit{Unit}} \qquad \qquad \text{One unit will decompose 1.0 } \mu \text{mole of H2O2 per min at pH 7.0 at 25 °C, while the H2O2 conc. falls from } \\$

Definition 10.3 to 9.2 mM.

Storage and Shipping Information

Stability 2-8°C

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