

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; 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 Weight tetramer mol wt ~250 kDa

Activity > 500 units/mg protein

Optimum pH ∼7.0

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

Unit DefinitionOne unit will decompose 1.0 μmole of H2O2 per min at pH 7.0 at 25°C, while the

H2O2 conc. falls from 10.3 to 9.2 mM.

Storage and Shipping Information

Stability 2-8°C