

Native Bovine Xanthine Oxidase

Cat. No. NATE-0732

Lot. No. (See product label)

Introduction

Description Xanthine oxidase is a molybdenum-containing enzyme that is found in the cytosol,

and may be strongly inhibited by flavonoids. It plays a vital role in the metabolism of some drugs, as well as purines and pyrimidines. It is also known to be a

biological source of reactive oxygen species. Xanthine oxidase was shown to be involved in the reduction of cytochrome c by the generation of superoxide anions following the oxidation of xanthine. These free radicals are responsible for reducing

cytochrome c.

Synonyms Xanthine oxidase; XO; xanthine oxidoreductase; EC 1.17.3.2; 9002-17-9; XOD;

Xanthine:oxygen oxidoreductase; hypoxanthine oxidase; hypoxanthine:oxygen oxidoreductase; Schardinger enzyme; hypoxanthine-xanthine oxidase; xanthine:02

oxidoreductase; xanthine:xanthine oxidase

Product Information

Species Bovine

Source Bovine milk

Form Type I, Type II, ammonium sulfate suspension; Suspension in 2.3 M (NH4)2SO4

containing 1 mM sodium salicylate; Type III, ammonium sulfate suspension, Suspension in 2.3 M (NH4)2SO4, 10 mM sodium phosphate buffer, pH 7.8,

containing 1 mM EDTA and 1 mM sodium salicylate; Type IV, lyophilized powder,

Contains 0.5% sodium salicylate.

EC Number EC 1.17.3.2.

CAS No. 9002-17-9

Activity Type I, > 0.4 units/mg protein; Type II, 0.1-0.4 units/mg protein; Type III, 1.0-2.0

units/mg protein; Type IV, 0.4-1.0 units/mg protein.

Unit Definition One unit will convert 1.0 μmole of xanthine to uric acid per min at pH 7.5 at 25°C.

Approx. 50% of the activity is obtained with hypoxanthine as substrate.

Storage and Shipping Information

Storage 2-8°C

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