

Native Chicken Sulfite Oxidase

Cat. No. NATE-0689

Lot. No. (See product label)

Introduction

Description

Sulfite oxidase (EC 1.8.3.1) is an enzyme in the mitochondria of all eukaryotes. [citation needed] It oxidizes sulfite to sulfate and, via cytochrome c, transfers the electrons produced to the electron transport chain, allowing generation of ATP in oxidative phosphorylation. This is the last step in the metabolism of sulfur-containing compounds and the sulfate is excreted. Sulfite oxidase is a metallo-enzyme that utilizes a molybdopterin cofactor and a heme group. It is one of the cytochromes b5 and belongs to the enzyme super-family of molybdenum oxotransferases that also includes DMSO reductase, xanthine oxidase, and nitrite reductase.

Synonyms

sulfite oxidase; EC 1.8.3.1; 9029-38-3

Product Information

Species

Chicken

Source

Chicken Liver

Form

Lyophilized

EC Number

EC 1.8.3.1

CAS No.

9029-38-3

Molecular Weight

110 kDa

Purity

> 85% (SDS-PAGE)

Activity

30-70 U/mg

Function

electron carrier activity; heme binding; molybdenum ion binding

Unit Definition

One unit of activity will oxidize 1 micromole sulfite to sulfate during the reduction of Cytochrome C per minute at pH 8.5 and 25°C

Storage and Shipping Information

Storage

-20°C