

## Native *Saccharomyces cerevisiae* Glyoxalase I

Cat. No. NATE-0308

Lot. No. (See product label)

### Introduction

#### Description

Glyoxalase I is universally expressed and involved in the protection against cellular damage due to cytotoxic metabolites such as advanced glycation end products (AGEs). It is an integral component of the detoxification system, catalyzing the conversion of reactive, acyclic  $\alpha$ -oxoaldehydes into the corresponding  $\alpha$ -hydroxyacids in a glutathione-dependent manner.

#### Synonyms

lactoylglutathione lyase; EC 4.4.1.5; methylglyoxalase; aldoketomutase; ketone-aldehyde mutase; glyoxylase I; (R)-S-lactoylglutathione methylglyoxal-lyase (isomerizing); 9033-12-9

### Product Information

#### Source

*Saccharomyces cerevisiae*

#### Form

buffered aqueous glycerol solution; Solution in 50% glycerol, 0.4 M (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> and 0.002 M KH<sub>2</sub>PO<sub>4</sub> pH 6.5

#### EC Number

EC 4.4.1.5

#### CAS No.

9033-12-9

#### Molecular Weight

42 kDa

#### Activity

> 400 units/mg protein

#### Unit Definition

One unit will form 1.0  $\mu$ mole of S-lactoylglutathione from methylglyoxal and reduced glutathione per min at pH 6.6 at 25°C.

### Storage and Shipping Information

#### Storage

2-8°C