Creative Enzymes®

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 a-oxoaldehydes into the corresponding a-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 (NH4)2SO4 and 0.002 M KH2PO4 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 µmole 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