

Glyoxalase I from Human, Recombinant

Cat. No. NATE-1651

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 α -oxoaldehydes into the corresponding α -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

Species

Human

Source

E. coli

Form

Glyoxalase-1 solution containing 20 mM Tris pH-8, 1mM DTT and 10% glycerol.

EC Number

EC 4.4.1.5

Molecular Weight

20.7 kDa

Purity

> 90% by SDS-PAGE

Activity

>0.4 units/mg

Unit Definition

One unit will form 1.0 μ mol of S-lactoylglutathione from methylglyoxal and reduced glutathione per minute at pH 7.5.

Storage and Shipping Information

Storage

Glyoxalase-I Human Recombinant although stable at 4 °C for weeks, should be stored desiccated below -18 °C. Please prevent freeze/thaw cycles.