Creative Enzymes®

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 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

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 umol 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.