

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.