

# Recombinant human Glyoxalase I protein

Catalog Number: GLX0905

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-184aa

### UniProt No.

Q04760

### NCBI Accession No.

NP\_006699.2

### Alternative Names

Lactoylglutathione lyase, Glx 1, GLO-1 Methylglyoxalase, Aldoketomutase, GLOD1, Glx I, GLYI, Glyoxalase I, Ketone aldehyde mutase, Lactoyl glutathione lyase, S D lactoylglutathione methylglyoxal lyase 0, Glyoxalase 1, GLO1

## PRODUCT SPECIFICATION

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### Molecular Weight

20.7 kDa (184aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

Non-Tagged

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Glyoxalase I, also known as GLO1, belongs to the glyoxalase I family. Glyoxalase I is responsible for the catalysis and formation of S-lactoyl-glutathione from methylglyoxal condensation and reduced glutathione. This enzyme is ubiquitously expressed and is also present in many tumor cell lines, in which its concentration is often upregulated. Recombinant human GLO1 protein was expressed in E. coli and purified by using conventional

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chromatography techniques.

## Amino acid Sequence

MAEPQPPSGG LTDEAALSCC SDADPSTKDF LLQQTMLRVK DPKKSLDFYT RVLGMTLIQK CDFPIMKFSL YFLAYEDKND  
IPKEKDEKIA WALSRKATLE LTHNWTGTEDD ETQSYHNGNS DPRGFGHIGI AVPDVYSACK RFEELGVK FV KKPDDGKMKG  
LAFIQDPDGY WIEILNPNKM ATLM

## General References

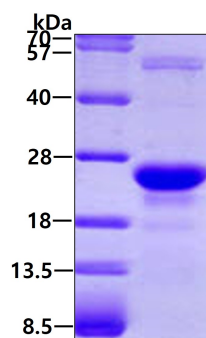
Ridderstrom M., et al. (1996) *Biochem J* 314(Pt2) 463-7

Sakamoto H., et al. (2000) *Blood* 95(10): 3214-8

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.