

Datasheet for ABIN935017 Glyoxalase Protein (AA 1-184)

Image



Overview

1

Quantity:	100 µg
Target:	Glyoxalase
Protein Characteristics:	AA 1-184
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS)
Product Details	
Sequence:	MAEPQPPSGG LTDEAALSCC SDADPSTKDF LLQQTMLRVK DPKKSLDFYT RVLGMTLIQK
	CDFPIMKFSL YFLAYEDKND IPKEKDEKIA WALSRKATLE LTHNWGTEDD ETQSYHNGNS
	DPRGFGHIGI AVPDVYSACK RFEELGVKFV KKPDDGKMKG LAFIQDPDGY WIEILNPNKM ATLM
Characteristics:	Purified recombinant Human Glyoxalase? protein
	Expression System: E.coli
	Bioactivity: Specific activity: >0.4 units/mg (please enquire for specific batch value). One unit
	will form 1.0 umol of S-lactoylglutathione from methylglyoxal and reduced glutathione per
	minute at pH 7.5, at 25 °C.
	Molecular weight on SDS-PAGE will appear higher.
Purity:	> 90 % pure

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Target Details

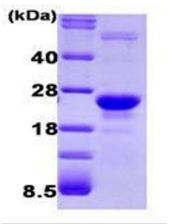
Target:	Glyoxalase	
Alternative Name:	Glyoxalase?	
Background:	 Glyoxalase I, also known as GLO1, belongs to the glyoxalase family. Glyoxalase I is responsible for the catalysis and formation of S-lactoyl-glutathione from methylglyoxal condensation and reduced glutathione. This enzyme is ubiquitously 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 chromatography techniques. Alternative Names: GLO-1 Methylglyoxalase protein, Lactoylglutathione lyase protein, Lactoyl glutathione lyase protein, Ketone aldehyde mutase protein, Glx 1 protein, GLOD1 protein, S D lactoylglutathione methylglyoxal lyase 0., Glyoxalase I protein, GLYI protein, Glx I protein, Aldoketomutase protein 	
Molecular Weight:	20.7 kDa (184 AA)	
Application Details		
Application Notes:	Glyoxalase I protein has been used in SDS PAGE and may be suitable for use in other assays to be determined by the end user.	
Assay Procedure:	 Prepare a 1.5 mL reaction mix into a suitable container: The final concentrations are 79 mM potassium phosphate, 0.033 % (w/v) reduced glutathine, 0.003 % (w/v) bovine serum albumin. Equilibrate to 25 °C and monitor at A240 nm (absorbance) until the value is constant, using a spectrophotometer. Add 50 μL of recombinant glyoxalase I solution with various concentrations (0.5 μg, 5 μg, 5 μg) in 1.5 mL reaction buffer. Immediately mix by inversion and record the increase at A240 nm for 5 minutes. 	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 mg/mL	
Buffer:	Supplied as a liquid in 20 mM Tris-HCl buffer, pH 8.0, containing 0 mM DTT, and 10 % glycerol.	
Preservative:	Dithiothreitol (DTT)	
Precaution of Use:	This product contains Dithiothreitol: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.	

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Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	RT/-20 °C
Storage Comment:	Store at 4 °C for short term storage (1/2 weeks). Aliquot and store at -20 °C or - 70 °C for long term storage.

Images



SDS-PAGE

Image 1. Figure annotation denotes ug of protein loaded and % gel used.

15% SDS-PAGE (3ug)