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Datasheet for ABIN6387621  
**GLO1 Protein (AA 1-184)**

## Overview

Quantity:	100 µg
Target:	GLO1
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:	ARPCIPKSFSG YSSVVCVCNA TYCDSFDPPT FPALGTFSRY ESTRSGRRME LSMGPIQANH TGTGLLLTLQ PEQKFQKVKG FGGAMTDAAA LNILALSPPA QNLLLSYFS EEGIGYNIIR VPMASCDFSI RTYTYADTPD DFQLHNFSLP EEDTKLKIPL IHRALQLAQR PVSLLASPWT SPTWLKTNGA VNGKGS�KGQ PGDIYHQTWA RYFVKFLDAY AEHLQFWAV TAENEPSAGL LSGYPFQCLG FTPEHQRFDI ARDLGPTLAN STHHNVRLLM LDDQRLLPH WAKVVLTDPE AAKYVHGIIV HWYLDFLAPA KATLGETHRL FPNTMLFASE ACVGSKFWEQ SVRLGSWDRG MQYSHSIITN LLYHVVGWTD WNLALNPEGG PNWVRNFVDS PIIVDITKDT FYKQPMFYHL GHFSKFIPEG SQRVGLVASQ KNDLDAVALM HPDGSAVVVV LNRSSKDVPL TIKDPAVGFL ETISPGYSIH TYLWRRQHHL HHH
Purity:	> 90 % by SDS - PAGE
Endotoxin Level:	< 1.0 EU per 1 microgram of protein (determined by LAL method)

## Product Details

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Biological Activity Comment: Specific activity: > 400 units/mg. One unit will form 1.0umol of S-lactoylgutathione from methylglyoxal and reduced glutathione per minute at pH6.5 at 25C.

## Target Details

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Target: GLO1

Alternative Name: GLO1 ([GLO1 Products](#))

Background: Lactoylglutathione lyase, 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.

Molecular Weight: 20.7 kDa (184 aa), confirmed by MALDI-TOF

NCBI Accession: [NP\\_006699](#)

UniProt: [Q04760](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

Comment: Bioactivity Validated

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 mg/mL

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

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.