

Datasheet for ABIN7320302

**GLO1 Protein (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	100 µg
Target:	GLO1
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLO1 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Mouse GLO1/Glyoxalase 1 Protein (His Tag)
Sequence:	Ala 2-Ile 184
Characteristics:	A DNA sequence encoding the mouse GLO1 (NP_079650.3) (Ala 2-Ile 184) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 95 % as determined by SDS-PAGE

## Target Details

Target:	GLO1
Alternative Name:	GLO1/Glyoxalase 1 ( <a href="#">GLO1 Products</a> )
Background:	Background: Lactoylglutathione lyase, also known as Methylglyoxalase, Aldoketomutase, Glyoxalase I, Ketone-aldehyde mutase, S-D-lactoylglutathione methylglyoxal lyase and GLO1, is a member of the glyoxalase I family. GLO1 / Glyoxalase I is a ubiquitous cellular defense enzyme involved in the detoxification of methylglyoxal, a cytotoxic byproduct of glycolysis.

## Target Details

Accumulative evidence suggests an important role of GLO1 expression in protection against methylglyoxal-dependent protein adduction and cellular damage associated with diabetes, cancer, and chronological aging. GLO1 / Glyoxalase I has been implicated in anxiety-like behavior in mice and in multiple psychiatric diseases in humans. GLO1 / Glyoxalase I catalyzes the conversion of hemimercaptal, formed from methylglyoxal and glutathione, to S-lactoylglutathione. GLO1 / Glyoxalase I exists in three separable isoforms which originate from two alleles in the genome. These correspond to two homodimers and one heterodimer composed of two subunits showing different electrophoretic properties. GLO1 upregulation may play a functional role in glycolytic adaptations of cancer cells.

Synonym: 0610009E22Rik,1110008E19Rik,2510049H23Rik,AW550643,Glo-1,Glo-1r,Glo-1s,Glo1-r,Glo1-s,GLY1,Qglo

Molecular Weight: 21.6 kDa

NCBI Accession: [NP\\_079650](#)

## Application Details

Restrictions: For Research Use only

## Handling

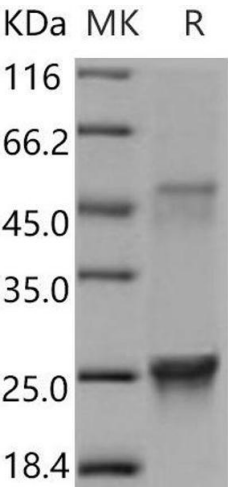
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



**Western Blotting**

**Image 1.**