

# Active Recombinant Mouse Glo1 Protein, His-tagged

**Cat. No.** Glo1-62M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Glo1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
<b>Species</b>	Mouse
<b>Source</b>	Insect Cells
<b>Description</b>	Glo1, also known as lactoylglutathione lyase, is a member of the glyoxalase I family. It plays a critical role in the detoxification of 2-oxoaldehydes, such as methylglyoxal. It involved in the regulation of TNF-induced transcriptional activity of NF-kappa-B. It was identified as a protein marker, which is consistently expressed to a higher extent in LAB-M than in HAB-M mice in several brain areas.
<b>Form</b>	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
<b>Bio-activity</b>	Specific activity is >210 units/mg, and is defined as the amount of enzyme that will form 1.0 μmol of S-lactoylglutathione from methylglyoxal and reduced glutathione per minute at pH 6.5 at 25 centigrade.
<b>Molecular Mass</b>	21.8kDa (192aa)28-40kDa (SDS-PAGE under reducing conditions)
<b>AA Sequence</b>	MAEPQPASSG LTDEAFSCC SDPDPSTKDF LLQQTMLRIK DPKKSLDFYT RVLGLTLLQK LDFPAMKFSL YFLAYEDKND IPKDKSEKTAWTFSRKATLE LTHNWGTEDD ETQSYHNGNS DPRGFGHIGI AVPDVYSACK RFEELGVKQV KKPDDGKMKG LAFIQDPDGY WIEILNPNKIATIILEHHHH HH

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<b>Endotoxin</b>	< 1.0 EU per 1 microgram of protein (determined by LAL method)
<b>Purity</b>	>95% by SDS - PAGE
<b>Storage</b>	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.5mg/ml (determined by Absorbance at 280nm)

## GENE INFORMATION

<b>Gene Name</b>	Glo1 glyoxylase 1 complex [ Mus musculus ]
<b>Official Symbol</b>	Glo1
<b>Synonyms</b>	GLO1; glyoxylase 1 complex; Glo-1;
<b>Gene ID</b>	14648
<b>mRNA Refseq</b>	
<b>Protein Refseq</b>	
<b>MIM</b>	
<b>UniProt ID</b>	

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