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## Product Data Sheet

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Product Name: GLO1 Human  
 Cat. No.: GP21679  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GLYI; GLOD1; GLO1; Glyoxalase-1; Lactoylglutathione lyase; Methylglyoxalase; Aldoketomutase; Ketone-aldehyde mutase; Glyoxalase I; S-D-lactoylglutathione methylglyoxal lyase; Glx I.		
Amino Acid Sequence	MAEPQPPSGG LTDEAALSCC SDADPSTKDF LLQQTMLRVK DPKKSLDFYT RVLGMTLIQK CDFPIMKFSL YFLAYEDKND IPKEKDEKIAWALSRKATLE LTHNWTGTEDD ETQSYHNGNS DPRGFGHIGI AVPDVYSACK RFEELGVKQV KKPDDGKMKG LAFIQDPDGY WIEILNPNKM ATLM.		
Formulation	Glyoxalase-1 solution containing 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.		

### Introduction

GLO1 is involved in the catalysis and formation of S-lactoyl-glutathione from methylglyoxal condensation and reduced glutathione. GLO1 is linked to HLA and is localized to 6p21.3-p21.1, between HLA and the centromere. GLO1 enzyme is abundantly expressed and present in numerous tumor cell lines, in which its concentration is often upregulated ubiquitously. GLO1 is a major susceptible gene for autism in an ethnic Chinese population from Taiwan. GLO1 might be involved in the pathophysiology of mood disorders. GLO1 plays a role in the pathophysiology of mood disorders. Overexpression of GLO1 is associated with kidney tumor.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Glyoxalase-I Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 184 amino acids and having a molecular mass of 20.7 kDa. Glyoxalase-1 is purified by proprietary chromatographic techniques.

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