

Recombinant Human GLO1

Cat. No. GLO1-29068TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GLO1; amino acids 1-184 , 20.7kDa.
Species	Human
Source	E.coli
ProteinLength	1-184 a.a.
Description	The enzyme encoded by this gene is responsible for the catalysis and formation of S-lactoyl-glutathione from methylglyoxal condensation and reduced glutathione. Glyoxalase I is linked to HLA and is localized to 6p21.3-p21.1, between HLA and the centromere.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MAEPQPPSGG LTDEAALSCC SDADPSTKDF LLQQTMLRVK DPKKSLDFYT RVLGMTLIQK CDFPIMKFSL YFLAYEDKND IPKEKDEKIA WALSRKATLE LTHNWGTEDD ETQSYHNGNS DPRGFGHIGI AVPDVYSACK RFEELGVKFV

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KKPDDGKMKG LAFIQDPDGY WIEILNPNKM ATLM

Sequence Similarities Belongs to the glyoxalase I family.

Full Length Full L.

GENE INFORMATION

Gene Name [GLO1 glyoxalase I \[Homo sapiens \]](#)

Official Symbol [GLO1](#)

Synonyms GLO1; glyoxalase I; lactoylglutathione lyase; GLOD1; glyoxalase domain containing 1;

Gene ID [2739](#)

mRNA Refseq [NM_006708](#)

Protein Refseq [NP_006699](#)

MIM [138750](#)

Uniprot ID [Q04760](#)

Chromosome Location 6p21.3-p21.1

Pathway Pyruvate metabolism, organism-specific biosystem; Pyruvate metabolism, conserved biosystem;

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Function

lactoylglutathione lyase activity; lyase activity; metal ion binding;

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