

Active Recombinant Human GLO1 Protein, Met & His-tagged

Cat. No. GLO1-574H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GLO1 (Accession # NP_006699) Ala2-Met184, fused with an N-terminal Met and 6-His tag, was produced in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ala2-Met184
Predicted N Terminal	Met
Form	Lyophilized from a 0.2 µm filtered solution in Tris-HCl and DTT.
Bio-activity	Measured by its ability to catalyze the formation of S-D-lactoylglutathione from the hemimercaptal adduct that forms spontaneously between methylglyoxal and reduced glutathione. The specific activity is >100 nmol/min/g, as measured under the described conditions.
Molecular Mass	Recombinant Human GLO1, Met & His-tagged has a calculated MW of 22 kDa. In SDS-PAGE migrates as 25 kDa, reducing conditions.
Purity	>85%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3

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months (-70°C).

Reconstitution

Reconstitute at 100 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.

GENE INFORMATION

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

Official Symbol [GLO1](#)

Synonyms [GLO1](#); glyoxalase I; lactoylglutathione lyase; [GLOD1](#); glyoxalase domain containing 1; [glx I](#); aldoketomutase; methylglyoxalase; ketone-aldehyde mutase; lactoyl glutathione lyase; S-D-lactoylglutathione methylglyoxal lyase; [GLYI](#);

Gene ID [2739](#)

mRNA Refseq [NM_006708](#)

Protein Refseq [NP_006699](#)

MIM [138750](#)

UniProt ID [Q04760](#)

Chromosome Location [6p21.3-p21.1](#)

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