Recombinant Human GLO1, GST-tagged

Cat. No. GLO1-13304H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GLO1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-184a.a.
Description	This gene encodes a nuclear zinc finger protein that functions as a transcriptional repressor. This protein plays a role in diverse developmental contexts, including hematopoiesis and oncogenesis. It functions as part of a complex along with other cofactors to control histone modifications that lead to silencing of the target gene promoters. Mutations in this gene cause autosomal dominant severe congenital neutropenia, and also dominant nonimmune chronic idiopathic neutropenia of adults, which are heterogeneous hematopoietic disorders that cause predispositions to leukemias and infections. Multiple alternatively spliced variants, encoding the same protein, have been identified for this gene.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

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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
Pathway	Pyruvate metabolism, organism-specific biosystem; Pyruvate metabolism, conserved biosystem; methylglyoxal degradation I, organism-specific biosystem;
Function	lactoylglutathione lyase activity; lyase activity; metal ion binding;

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