

## GLO1 Human

**Description:** 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.

Catalog #:ENPS-405

**Synonyms:** GLYI, GLOD1, GLO1, Glyoxalase-1, Lactoylglutathione lyase, Methylglyoxalase, Aldoketomutase, Ketone-aldehyde mutase, Glyoxalase I, S-D-lactoylglutathione methylglyoxal lyase, Glx I.

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MAEPQPPSGG LTDEAALSCC SDADPSTKDF LLQQTMLRVK  
DPKKSLEDFYT RVLGMTLIQK CDFPIMKFSL YFLAYEDKND IPKEKDEKIAWALSRKATLE  
LTHNWGTEDD ETQSYHNGNS DPRGFHIGI AVPDVYSACK RFEELGVK FV KKPDDGKMKG  
LAFIQDPDGY WIEILNPNKM ATLM.

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

Glyoxalase-1 solution containing 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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.

**Biological Activity:**

>0.4 units/mg. One unit will form 1.0 umol of S-lactoylglutathione from methylglyoxal and reduced glutathione per minute at pH 7.5, at 25C.

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