

Glyoxalase-I Human Recombinant, Active

Item Number	rAP-1144
Synonyms	GLYI, GLOD1, GLO1, Glyoxalase-1, Lactoylglutathione lyase, Methylglyoxalase, Aldoketomutase, Ketone-aldehyde mutase, Glyoxalase I, S-D-lactoylglutathione methylglyoxal lyase, Glx I.
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.
Uniprot Accession Number	Q04760
Amino Acid Sequence	MAEPQPPSGG LTDEAALSCC SDADPSTKDF LLQQTMLRVK DPKKSLDFYT RVLGMTLIQK CDFPIM-KFSL YFLAYEDKND IPKEKDEKIAWALSRKATLE LTHNWGTEDD ETQSYHNGNS DPRGFGHIGI AV-PDVYSACK RFEELGVKFV KKPDDGKMKG LAFIQDPDGY WIEILNPNKM ATLM.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile filtered colorless solution. 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.
Formulation and Purity	Glyoxalase-1 solution containing 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol. Greater than 90.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity: > 400 units/mg. One unit will form 1.0umol of S-lactoylglutathione from methylglyoxal and reduced glutathione per minute at pH6.5 at 25C
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**