

Glyoxalase-I Mouse Recombinant

Item Number	rAP-1143
Synonyms	Lactoylglutathione lyase, Aldoketomutase, Glyoxalase I, Glx I, Ketone-aldehyde mutase, Methylglyoxalase, S-D-lactoylglutathione methylglyoxal lyase.
Description	GLO1 Mouse Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 192 amino acids (1-184a.a.) and having a molecular mass of 21.8kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa).
Uniprot Accesion Number	Q9CPU0
Amino Acid Sequence	MAEPQPASSG LTDETAFS SCC SDPDPSTKDF LLQQTMLRIK DPKKSLDFYT RVLGLTLLQK LDFPAMKFSL YFLAYEDKND IPKDKSEKTA WTFSRKATLE LTHNWGTEDD ETQSYHNGNS DPRGF GHIGI AVPDVYSACK RFEELGVKVFV KKPDDGKMKKG LAFIQDPDGY WIEILNPNKI ATIILEHHHH HH.
Source	Sf9, Baculovirus cells.
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	GLO1 protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity is > 210 units/mg, and is defined as the amount of enzyme that will form 1.0 µmol of S-lactoylglutathione from methylglyoxal and reduced glutathione per minute at pH 6.5 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**