
Product Data Sheet

Product Name: GLO1 Mouse

Cat. No.: GP21681

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Lactoylglutathionelyase; Aldoketomutase; Glyoxalase I; Glx I; Ketone-aldehyde mutase; Methylglyoxalase;S-D-lactoylglutathione methylglyoxal lyase.		
Amino Acid Sequence	MAEPQPASSG LTDETAFFSCC SDPDPSTKDF LLQQTMLRIK DPKKSLEDFYTRVLGLTLLQK LDFPAMKFSL YFLAYEDKND IPKDKSEKTA WTF SRKATLE LTHNWTGTEDD ETQSYHNGNSDPRGFGHIGI AVPDVYSACK RFEELGVKQV KKPDDGKMKG LAFIQDPDGY WIEILNPNKIATIILEHHHH HH.		
Formulation	GLO1protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and10% glycerol.		

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

Specific activity is > 210 units/mg, and is defined as the amount of enzyme that will form 1.0 μ mol of S-lactoylglutathione from methylglyoxal and reduced glutathione per minute at pH 6.5 at 25C.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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). GLO1 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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