

32-6763: GLO1 Mouse

Application : Functional Assay

Alternative Name : Lactoylglutathione lyase, Aldoketomutase, Glyoxalase I, Glx I, Ketone-aldehyde mutase, Methylglyoxalase, S-D-lactoylglutathione methylglyoxal lyase.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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.

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.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : GLO1 protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Storage condition : 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.

Amino Acid : MAEPQPASSG LTDEAFSCC SDPDPSTKDF LLQQTMLRIK DPKKSLDFYT RVLGLTLLQK LDFPAMKFSL YFLAYEDKND IPKDKSEKTA WTFSRKATLE LTHNWGTEDD ETQSYHNGNS DPRGFGHIGI AVPDVYSACK RFEELGVKFV KKPDDGKMKG LAFIQDPDGY WIEILNPNKI ATIIEHHHH HH.

Application Note

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