9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

32-6762: GLO1 Human, Active

Application :	Functional Assay
Alternative Name :	GLYI, GLOD1, GLO1, Glyoxalase-1, Lactoylglutathione lyase, Methylglyoxalase, Aldoketomutase, Ketone-aldehyde mutase, Glyoxalase I, S-D-lactoylglutathione methylglyoxal lyase, Glx I.

Description

Source: Escherichia Coli.
Sterile filtered colorless solution.
GLO1 is involved in the catalysis and formation of S-lactoyl-glutathione from methylglyoxal condensation and reduced glutatione. GLO1 is linked to HLA and is localized to 6p21.3-p21.1, between HLA and the centromere. GLO1 enzyme is ubundantly expressed and present in numerous tumor cell lines, in which its concentration is often upregulated ubiquitisly. 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.
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.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	Glyoxalase-1 solution containing 20mM Tris-HCl pH-8, 1mM DTT 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 :	MAEPQPPSGG LTDEAALSCC SDADPSTKDF LLQQTMLRVK DPKKSLDFYT RVLGMTLIQK CDFPIMKFSL YFLAYEDKND IPKEKDEKIAWALSRKATLE LTHNWGTEDD ETQSYHNGNS DPRGFGHIGI AVPDVYSACK RFEELGVKFV KKPDDGKMKG LAFIQDPDGY WIEILNPNKM ATLM.

Application Note

Specific activity: > 400 units/mg. One unit will form 1.0umol of S-lactoylgutathione from methylglyoxal and reduced glutathione per minute at pH6.5 at 25C

For Research Use Only. Not for use in diagnostic/therapeutics procedures.