

Bioactive

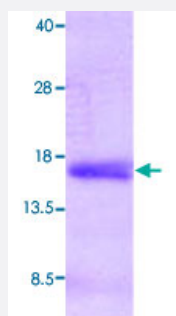
Full-Length

GLO1 (Human) Recombinant Protein

Catalog # P3478

Size 100 ug

Applications



Specification

Product Description	Human GLO1 (NP_006699, 1 a.a. - 184 a.a.) full-length recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	MAEPQPPSGGLTDEAALSCCSDADPSTKDFLLQQTMLRVKDPKKSLEDFYTRVLGMTLIQKCDFPI MKFSLYFLAYEDKNDIPKEKDEKIAWALSRKATLELTHNWGTEDDETQSYHNGNSDPRGFHIGIA VPDVYSACKRFEELGVKFVKKPDDGKMKGLAFIQDPDGYWIEILNPNKMATLM
Host	Escherichia coli
Theoretical MW (kDa)	20.7
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Conventional Chromatography
Concentration	1 mg/mL
Purity	> 90% by SDS-PAGE
Activity	Specific activity: >0.4 units/mg (please enquire for specific batch value). One unit will form 1.0 umol of S-lactoylglutathione from methylglyoxal and reduced glutathione per minute at pH 7.5, at 25°C. Specific activity was expressed in units/mg of

Quality Control Testing

Loading 3 ug protein in 15% SDS-PAGE

Storage Buffer

In 20 mM Tris-HCl buffer, pH 8.0 (1 mM DTT, 10% glycerol).

Storage Instruction

Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — GLO1

Entrez GeneID[2739](#)**Protein Accession#**[NP_006699](#)**Gene Name**

GLO1

Gene Alias

GLOD1, GLY1

Gene Description

glyoxalase I

Omim ID[138750](#) [209850](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The enzyme encoded by this gene is responsible for the catalysis and formation of S-lactoyl-glutathione from methylglyoxal condensation and reduced glutathione. Glyoxalase I is linked to HLA and is localized to 6p21.3-p21.1, between HLA and the centromere. [provided by RefSeq]

Other Designations

OTTHUMP00000016339|glyoxalase domain containing 1|lactoyl glutathione lyase|lactoylglutathione lyase

Pathway

- [Pyruvate metabolism](#)

Disease

- [Albuminuria](#)
- [Alcoholism](#)
- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Genetic Predisposition to Disease](#)
- [Interview](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Multiple Sclerosis](#)
- [Pancreatic Neoplasms](#)
- [Panic Disorder](#)
- [Tobacco Use Disorder](#)
- [Tuberculosis](#)
- [Uremia](#)
- [Vascular Diseases](#)