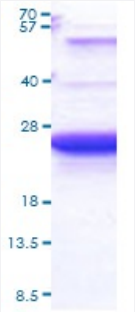
Bioactive

GLO1 (Human) Recombinant Protein

Catalog # P6798 Size 20 ug

Applications



15% SDS-PAGE Stained with Coomassie Blue.

Specification

Product Description	Human GLO1 (NP_001209.1, 25 a.a. - 301 a.a.) partial recombinant protein with His tag expressed in Baculovirus expression system.
Host	Viruses
Theoretical MW (kDa)	20.7
Form	Liquid
Preparation Method	Baculovirus expression system
Purity	> 90% by SDS-PAGE
Endotoxin Level	< 1 EU/ug
Activity	Specific activity is > 400 unit/mg. One unit will form 1.0 umol of S-lactoylgutathione from methylglyoxal and reduced glutathione per minute at pH 6.5 at 25°C.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue 15% SDS-PAGE Stained with Coomassie Blue.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.

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Storage Buffer	In 20 mM Tris-HCl, 1 mM DTT, pH 8.0 (10% glycerol)
Storage Instruction	Store at -20°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — GLO1

Entrez GeneID	2739
Protein Accession#	Q04760
Gene Name	GLO1
Gene Alias	GLOD1, GLYI
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 glutatione. 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

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- 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

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