Datasheet for ABIN6387797

GLO1 Protein (AA 1-184) (His tag)

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Overview

Quantity:	50 µg
Target:	GLO1
Protein Characteristics:	AA 1-184
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This GLO1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MAEPQPASSG LTDETAFSCC SDPDPSTKDF LLQQTMLRIK DPKKSLDFYT RVLGLTLLQK LDFPAMKFSL YFLAYEDKND IPKDKSEKTA WTFSRKATLE LTHNWGTEDD ETQSYHNGNS DPRGFGHIGI AVPDVYSACK RFEELGVKFV KKPDDGKMKG LAFIQDPDGY WIEILNPNKI ATIILEHHHH HH
Purity:	> 95 % by SDS - PAGE
Endotoxin Level:	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 210 units/mg, and is defined as the amount of enzyme that will form 1.0 micromol of S-lactoylglutathione from methylglyoxal and reduced glutathione per minute at pH 6.5 at 25C.

Target Details

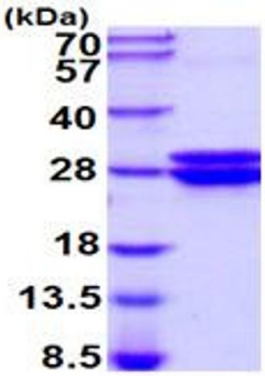
Target:	GLO1
Alternative Name:	Glo1 (GLO1 Products)
Background:	Glo1, also known as lactoylglutathione lyase, is a member of the glyoxalase I family. It plays a critical role in the detoxification of 2-oxoaldehydes, such as methylglyoxal. It involved in the regulation of TNF-induced transcriptional activity of NF-kappa-B. It was identified as a protein marker, which is consistently expressed to a higher extent in LAB-M than in HAB-M mice in several brain areas. Recombinant mouse Glo1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	21.8kDa (192aa) 28-40kDa (SDS-PAGE under reducing conditions)
NCBI Accession:	NP_079650
UniProt:	Q9CPU0

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.



15% SDS-PAGE (3ug)

SDS-PAGE

Image 1.

