GLXR Protein, Mouse (His-SUMO)

Cat. No.:	HY-P72212
Synonyms:	Grhpr; GlxrGlyoxylate reductase/hydroxypyruvate reductase; EC 1.1.1.79; EC 1.1.1.81
Species:	Mouse
Source:	E. coli
Accession:	Q91Z53 (M1-L328)
Gene ID:	76238
Molecular Weight:	Approximately 51.3 kDa

PROPERTIES

AA Sequence	M K P A R L M K V F V T G P L P A E G R A A L A Q A A D C E V E Q W N S D D P I P R K D L E Q G V V G A H G L L C R L S D R V D K K L L D A A G A N L R V I S T L S V G V D H L A L D E I K K R G I R V G Y T P G V L T D A T A E L A V S L L L T T C R R L P E A I E E V K N G G W S S W S P L W M C G Y G L S Q S T V G I V G L G R I G Q A I A R R L K P F G V Q R F L Y T G R Q P R P Q E A A E F Q A E F V P I A Q L A A E S D F I V V S C S L T P D T M G L C S K D F F Q K M K N T A I F I N I S R G D V V N Q E D L Y Q A L A S G Q I A A A G L D V T T P E P L P P S H P L L T L K N C V I L P H I G S A T Y K T R N T M S L L A A N N L L A G L R G E A M P S E L K L
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm solution of Tris-based buffer, 50% Glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	The GLXR protein, characterized by its multifunctional enzymatic activities, acts as a hydroxy-pyruvate reductase, glyoxylate reductase, and D-glycerate dehydrogenase. Its versatile enzymatic functions involve the reduction of hydroxypyruvate to D-

glycerate and glyoxylate to glycolate, while also oxidizing D-glycerate to hydroxypyruvate. This dynamic enzymatic profile suggests a pivotal role for GLXR in the interconversion of key metabolites within cellular pathways. The ability of GLXR to catalyze these reactions reflects its importance in metabolic processes where hydroxy-pyruvate, glyoxylate, and D-glycerate are involved, emphasizing its significance in maintaining metabolic homeostasis (

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