IldD Protein, E.coli (His)

Cat. No.:	HY-P71522
Synonyms:	lldD; EcHS_A3817L-lactate dehydrogenase
Species:	E.coli
Source:	E. coli
Accession:	A8A670 (1M-396A)
Gene ID:	57729941
Molecular Weight:	Approximately 46.7 kDa

PROPERTIES

AA Sequence	MIISAASDYR AAAQRILPPF LFHYMDGGAY SEYTLRRNVE DLSEVALRQR ILKNMSDLSL ETTLFNEKLS MPVALAPVGL CGMYARRGEV QAAKAADAHG IPFTLSTVSV CPIEEVAPAI KRPMWFQLYV LRDRGFMRNA LERAKAAGCS TLVFTVDMPT PGARYRDAHS GMSGPNAAMR RYLQAVTHPQ WAWDVGLNGR PHDLGNISAY LGKPTGLEDY IGWLGNNFDP SISWKDLEWI RDFWDGPMVI KGILDPEDAR DAVRFGADGI VVSNHGGRQL DGVLSSARAL PAIADAVKGD IAILADSGIR NGLDVVRMIA LGADTVLLGR AFLYALATAG QAGVANLLNL IEKEMKVAMT LTGAKSISEI TQDSLVQGLG KELPAALAPM AKGNAA
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 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	GLO1/Glyoxalase I protein serves as a catalyst in the conversion of hemimercaptal, generated from the reaction between

methylglyoxal and glutathione, into S-lactoylglutathione. This enzymatic activity plays a crucial role in the detoxification of methylglyoxal, a cytotoxic byproduct of glycolysis. Additionally, GLO1 is implicated in the regulation of TNF-induced transcriptional activity of NF-kappa-B, suggesting its involvement in inflammatory signaling pathways. Furthermore, GLO1 is essential for normal osteoclastogenesis, highlighting its significance in cellular processes beyond its role in detoxification.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA