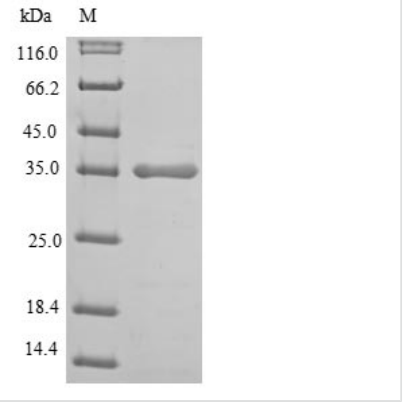
Recombinant Human L-lactate dehydrogenase A chain (LDHA), partial

Product Code	CSB-EP012832HU1e1
Abbreviation	Recombinant Human LDHA protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P00338
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	KDQLIYNLLKEEQTPQNKITVVGVGAVGMACAISILMKDLADELALVDVIEDKLK GEMMDLQHGSLFLRTPKIVSGKDYNVTANSKLVIITAGARQQEGESRLNLVQR NVNIFKFIIPNVVKYSPNCKLLIVSNPVDILTYVAWKISGFPKNRVIGSGCNLDSA RFRYLMGERLGVHPLSCHGWVLGEHGDSSVPVWSGMNVAGVSLKTLHPDLG TDKDKEQWKEVHKQVVESAYEVIKLKGYTSWAIGLSVADLAESIMKNLRRVHP VSTMIKGLYGIKDDVFLSVPCILGQNGISDLVKVTLTSEEEARLKKSADTL
Research Area	Metabolism
Source	E.coli
Target Names	LDHA
Protein Names	Cell proliferation-inducing gene 19 proteinLDH muscle subunit
Expression Region	5-323aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag-Free
Mol. Weight	35.1 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

This recombinant Human LDHA protein is an E.coli expressed partial protein with Tag-Free and its purity is 85%+ determined by SDS-PAGE. With the appropriate cDNA and PCR methods, LDHA expression plasmids can be rapidly produced. which must undergo denaturation and folding cycle, can be recovered with more modest yields. Hence, using small-scale fermentations and laboratory-scale processing equipment, LDHA proteins (or subdomains thereof) can usually be produced in sufficient quantities to initiate most studies including detailed structural determinations.which must undergo denaturation and folding cycle, can be recovered with more modest yields. Hence, using small-scale fermentations and laboratory-scale processing equipment, LDHA proteins (or subdomains thereof) can usually be produced in sufficient quantities to initiate most studies including detailed structural determinations.

LDHA is a critical glycolytic enzyme that promotes aerobic glycolysis in the cells by catalyzing the interconversion of pyruvate and lactate. It contributes to the increase in glucose uptake and lactate generation in tumor cells and is important for cancer invasion and immune infiltration. High expression of LDHA has been found in a variety of malignancies such as breast cancer, liver cancer, and oral squamous cell carcinoma and has been linked to tumor volume, stage, and degree of cell differentiation as well as affected disease-free survival (DFS) and overall survival (OS). LDHA has recently been associated with lactic acid-related tumor immune infiltration and immune escape.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.