

## Lactate Dehydrogenase 1 Active Protein | LDH-1 active protein

Lactate Dehydrogenase 1 (LDH-1), Human Erythrocytes

CATALOG #  
**AAA44809**

HOST  
**Human erythrocytes**

### PRODUCT SYNONYMS

Lactate Dehydrogenase 1; Lactate Dehydrogenase 1 (LDH-1); Human Erythrocytes; LD1; LDH-B; LDH-H; LDH-1 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Human erythrocytes                                                                                                                                                    |
| Form/Format             | Suspension in 3.1 M ammonium sulfate with tris chloride, DTT, and EDTA, pH 7.5                                                                                        |
| Sequence Length         | 333                                                                                                                                                                   |
| CAS Number              | 9001-60-9                                                                                                                                                             |
| E.C Number              | 1.1.1.27                                                                                                                                                              |
| Appearance              | Clear to turbid, off-white suspension.                                                                                                                                |
| Activity                | 800 units/mL (Dimension® Clinical Chemistry System)                                                                                                                   |
| Unit definition         | One unit will catalyze the oxidation of one micromole of L-lactate to pyruvate with simultaneous reduction of NAD <sup>+</sup> to NADH per minute at 37°C and pH 9.4. |
| Protein                 | 2.9 mg/mL(Coomassie)                                                                                                                                                  |
| Specific activity       | 270 units/mg protein                                                                                                                                                  |
| Electrophoresis         | LD1 > or = 95% consistent with control (Helena QuickGel® LD Isozyme Kit)<br>LD2 < or = 1%<br>LD3 < or = 1%<br>LD4 < or = 1%<br>LD5 < or = 1%                          |
| Contaminants            | CK < = 1%                                                                                                                                                             |
| Handling                | Handle as a potentially hazardous substance                                                                                                                           |
| Recovery                | Mix thoroughly before sampling.                                                                                                                                       |
| Source                  | Human erythrocytes®                                                                                                                                                   |
| Preparation and Storage | Store 2-8°C. Do not freeze                                                                                                                                            |

### ADDITIONAL INFORMATION

|                                                    |                                                                                                   |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Product Categories/Family for LDH-1 active protein | Proteins; Antigens; Enzymes; Standards/controls; Native Proteins; Lactate Dehydrogenase 1 (ldh-1) |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------|

### NCBI AND UNIPROT INFORMATION

|             |                          |
|-------------|--------------------------|
| NCBI GI #   | <a href="#">17535107</a> |
| NCBI GeneID | <a href="#">174798</a>   |

|                            |                             |
|----------------------------|-----------------------------|
| NCBI Accession #           | <a href="#">NP_496503.1</a> |
| NCBI GenBank Nucleotide #  | <a href="#">NM_064102.5</a> |
| UniProt Accession #        | <a href="#">Q27888</a>      |
| NCBI Official Full Name    | Protein LDH-1               |
| NCBI Official Symbol       | ldh-1                       |
| NCBI Protein Information   | Protein LDH-1               |
| UniProt Protein Name       | L-lactate dehydrogenase     |
| UniProt Gene Name          | <b>ldh-1</b>                |
| UniProt Synonym Gene Names | LDH                         |
| UniProt Entry Name         | LDH_CAEEL                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-erythrocytes-ldh-1-active-protein/lactate-dehydrogenase-1/44809>