

## Active Recombinant Human ALDOA Protein, His tagged

**Cat. No.** ALDOA-1933H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human Aldolase A, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 1-364 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | <p>Fructose bisphosphate aldolase A, also known as Aldolase A is a glycolytic enzyme that catalyzes the reversible conversion of fructose-1, 6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. It is found in the developing embryo and is produced in even greater amounts in adult muscle. Aldolase A expression is repressed in adult liver, kidney and intestine and similar to aldolase C levels in brain and other nervous tissue. Deficiency has been associated with myopathy and hemolytic anemia.</p> |
| <b>Form</b>             | Liquid in 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 10% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Bio-activity</b>     | Specific activity is > 10 unit/mg, one unit will convert 1.0 $\mu$ mol of fructose 1,6-diphosphate to dihydroxyacetone phosphate and glyceraldehydes 3-phosphate per minute at pH 7.5 at 37 centigrade.                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 41.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|                      |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AASequence</b>    | < MGSSHHHHHHSSGLVPRGSH> MPYQYPALTPEQKKELSDIAHRIVAPGKGILAAD<br>ESTGSIAKRLQSIGTENTENRRFYRQLLLTADDRVNPCIGGVILFHETLYQKADDGR<br>PFPQVIKSKGGVVGIVDKGVVPLAGTNGETTTQGLDGLSERCAQYKKDGADFAKW<br>RCVLKIGEHTPSALAIMENANVLARYASICQQNGIVPIVEPEILPDGDHDLKRCQYVTE<br>KVLAAYKALSDHHIYLEGTLLKPNMVTGPHACTQKFSHEEIAMATVTALRRTVPPAV<br>TGITFLSGGQSEEEASINLNAINKCPLLKPWALTFSYGRALQASALKAWGGKKENLK<br>AAQEEYVKRALANSLACQGKYTPSGQAGAAASESLFVSNHAY |
| <b>Purity</b>        | > 95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Applications</b>  | SDS-PAGE, Enzyme Activity                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Notes</b>         | For research use only. This product is not intended or approved for human, diagnostics or veterinary use.                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>       | Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                           |
| <b>Concentration</b> | 1 mg/mL (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ALDOA aldolase, fructose-bisphosphate A [ Homo sapiens (human) ]                                                                                                                            |
| <b>Official Symbol</b> | ALDOA                                                                                                                                                                                       |
| <b>Synonyms</b>        | ALDOA; aldolase A, fructose-bisphosphate; fructose-bisphosphate aldolase A; muscle-type aldolase; lung cancer antigen NY-LU-1; fructose-1,6-bisphosphate triosephosphate-lyase; ALDA; GSD12 |
| <b>Gene ID</b>         | 226                                                                                                                                                                                         |

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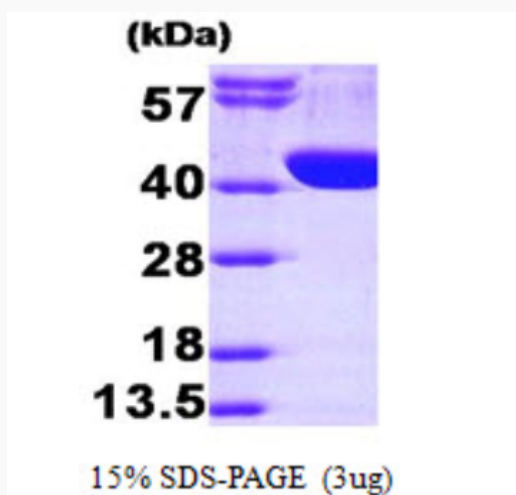
mRNA Refseq [NM\\_184041](#)

Protein Refseq [NP\\_908930](#)

MIM [103850](#)

UniProt ID [P04075](#)

SDS-PAGE



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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