# Recombinant Human ALDOA Protein Data Sheet

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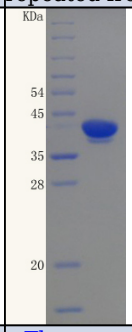
|---|---|
| Catalog # | hRP-C0193-EF012 |
| Size | 100 μg |
| Protein Name | Human fructose-bisphosphate aldolase A |
| Protein Symbol | ALDOA |
| Original Source | *Homo sapiens* |
| Expression System | *E.coli* |
| GenBank Accession # | NM_000034.1 |
| Uniprot Accession # | P04075 |
| Description | This gene product, Aldolase A (fructose-bisphosphate aldolase) is a glycolytic enzyme that catalyzes the reversible conversion of fructose-1, 6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. Three aldolase isozymes (A, B, and C), encoded by three different genes, are differentially expressed during development. Aldolase A 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. Aldolase A deficiency has been associated with myopathy and hemolytic anemia. Alternative splicing of this gene results in multiple transcript variants which encode the same protein. |
| Application | WB, ELISA, IP, antibody production, protein array |
| Fusion tag | N-His |
| Peptide Length | 379aa(including fusion tag) |
| Molecular Weight | 41.3kDa(including fusion tag) |
| pI | 8.2 |
| Activity | NA |
| Storage | Storage buffer: 20mM Tris.Cl, 50mM NaCl, 50% Glycerol, pH9.0. Store at -80°C and avoid repeated freeze-thaw cycles. |
| |  |
| Reference: | • The crystal structure of human muscle aldolase at 3.0 A resolution.<br>• Activity and specificity of human aldolases<br>• Human aldolase A deficiency associated with a hemolytic anemia: thermolabile aldolase due to a single base mutation |

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