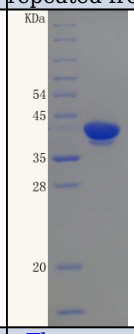
Recombinant Human ALDOA Protein Data Sheet

Catalog #	hRP-C0193-EF011
Size	25 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. • Activity and specificity of human aldolases • Human aldolase A deficiency associated with a hemolytic anemia: thermolabile aldolase due to a single base mutation

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