

Fructose-bisphosphate aldolase A/ALDOA Protein, Human (C-His)

Cat. No.:	HY-P7877
Synonyms:	rHuFructose-bisphosphate aldolase A/ALDOA, His; Fructose-Bisphosphate Aldolase A; Lung Cancer Antigen NY-LU-1; Muscle-Type Aldolase; ALDOA; ALDA
Species:	Human
Source:	E. coli
Accession:	P04075 (P2-Y364)
Gene ID:	226
Molecular Weight:	Approximately 38.0 kDa

PROPERTIES

AA Sequence	<pre> P Y Q Y P A L T P E Q K K E L S D I A H R I V A P G K G I L A A D E S T G S I A K R L Q S I G T E N T E E N R R F Y R Q L L L T A D D R V N P C I G G V I L F H E T L Y Q K A D D G R P F P Q V I K S K G G V V G I K V D K G V V P L A G T N G E T T T Q G L D G L S E R C A Q Y K K D G A D F A K W R C V L K I G E H T P S A L A I M E N A N V L A R Y A S I C Q Q N G I V P I V E P E I L P D G D H D L K R C Q Y V T E K V L A A V Y K A L S D H H I Y L E G T L L K P N M V T P G H A C T Q K F S H E E I A M A T V T A L R R T V P P A V T G I T F L S G G Q S E E E A S I N L N A I N K C P L L K P W A L T F S Y G R A L Q A S A L K A W G G K K E N L K A A Q E E Y V K R A L A N S L A C Q G K Y T P S G Q A G A A A S E S L F V S N H A Y </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 20% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Fructose-bisphosphate aldolase A (ALDOA) is a pivotal enzyme that catalyzes the reversible conversion of beta-D-fructose
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1,6-bisphosphate (FBP) into two triose phosphates, playing a crucial role in both glycolysis and gluconeogenesis. This enzymatic activity is integral to the breakdown of glucose for energy production and the synthesis of glucose from non-carbohydrate precursors. Beyond its role in carbohydrate metabolism, ALDOA may also function as a scaffolding protein, suggesting additional roles in cellular processes beyond its classical enzymatic function. The versatility of ALDOA in glycolytic and non-glycolytic functions highlights its importance in various cellular processes and underscores its potential significance as a therapeutic target.

Caution: Product has not been fully validated for medical applications. For research use only.

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