

## **Native Rabbit Aldolase**

Cat. No. NATE-0048

Lot. No. (See product label)

## Introduction

**Description** Fructose-bisphosphate aldolase (EC 4.1.2.13), often just aldolase, is an enzyme

catalyzing a reversible reaction that splits the aldol, fructose 1,6-bisphosphate, into the triose phosphates dihydroxyacetone phosphate (DHAP) and glyceraldehyde 3-phosphate (G3P). Aldolase can also produce DHAP from other (3S,4R)-ketose 1-phosphates such as fructose 1-phosphate and sedoheptulose 1,7-bisphosphate. Gluconeogenesis and the Calvin cycle, which are anabolic pathways, use the reverse reaction. Glycolysis, a catabolic pathway, uses the forward reaction.

Aldolase is divided into two classes by mechanism.

**Applications** Aldolase is used to convert fructose 1,6-diphosphate to dihydroxyacetone

phosphate and glyceraldehyde 3-phosphate. Aldolase, from rabbit muscle has been used for stereospecific deprotonation at DHAP C3. This product is essentially

sulfate-free and contains Citrate buffer salts.

**Synonyms** aldolase; fructose-1,6-bisphosphate triosephosphate-lyase; Fructose-bisphosphate

aldolase; fructose diphosphate aldolase; D-fructose-1,6-bisphosphate D-

glyceraldehyde-3-phosphate-lyase; EC 4.1.2.13; 9024-52-6

## **Product Information**

**Species** Rabbit

**Source** Rabbit muscle

**Form** lyophilized powder. Essentially sulfate-free containing Citrate buffer salts

**EC Number** EC 4.1.2.13

*CAS No.* 9024-52-6

**Activity** Type I, lyophilized powder, > 8.0 units/mg protein; Type II, ammonium sulfate

suspension, 10-20 units/mg protein

Unit Definition One unit will convert 1.0 μmole of fructose 1,6-diphosphate to dihydroxyacetone

phosphate and glyceraldehyde 3-phosphate per min at pH 7.4 at 25°C.

## Storage and Shipping Information

*Storage* –20°C

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