

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 One unit will convert 1.0 μmole of fructose 1,6-diphosphate to dihydroxyacetone phosphate and

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

Storage and Shipping Information

Storage −20°C

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

1/1