Creative Enzymes®

L-fuculose-1-phosphate aldolase from Thermus thermophilus HB8, Recombinant

Cat. No. NATE-1502

Lot. No. (See product label)

Introduction

Description In enzymology, a L-fuculose-phosphate aldolase (EC 4.1.2.17) is an enzyme that catalyzes the chemical reaction: L-fuculose-1-phosphate → glycerone phosphate + (S)-lactaldehyde. Hence, this enzyme has one substrate, L-fuculose-1-phosphate, and two products, glycerone phosphate and (S)-lactaldehyde. This enzyme belongs to the family of lyases, specifically the aldehyde-lyases, which cleave carbon-carbon bonds.

Synonyms L-fuculose-1-phosphate (S)-lactaldehyde-lyase (glycerone-phosphate-forming); L-fuculose 1-phosphate aldolase; fuculose aldolase; L-fuculose-1-phosphate lactaldehyde-lyase; L-fuculose-phosphate aldolase; EC 4.1.2.17

Product Information

Species Thermus thermophilus HB8

Source E. coli

EC Number EC 4.1.2.17

CAS No. 9024-54-8

Purity min 95% by SDS-PAGE

Unit Definition One unit is defined as the amount of enzyme that catalyzes the formation of 1 μmol of L-fuculose 1-phosphate per minute at 37 °C.