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.