Creative Enzymes®

Native E. coli 3-Deoxy-D-manno-octulosonate Aldolase

Cat. No. NATE-0363

Lot. No. (See product label)

Introduction

Description	In enzymology, a 3-deoxy-D-manno-octulosonate aldolase (EC 4.1.2.23) is an enzyme that catalyzes the chemical reaction:3-deoxy-D-manno-octulosonate↔ pyruvate + D-arabinose. Hence, this enzyme has one substRate, 3-deoxy-D-manno-octulosonate, and two products, pyruvate and D-arabinose. This enzyme belongs to the family of lyases, specifically the aldehyde-lyases, which cleave carbon-carbon bonds.
Synonyms	2-keto-3-deoxyoctonate aldolase; KDOaldolase; 3-deoxyoctulosonic aldolase; 2-keto-3-deoxyoctonic aldolase; 3-deoxy-D-manno-octulosonic aldolase; 3-deoxy-D-manno-octulosonate D-arabinose-lyase; EC 4.1.2.23; 3-Deoxy-D-manno-octulosonate Aldolase

Product Information

Source	E. coli
EC Number	EC 4.1.2.23
CAS No.	9026-95-3
Activity	> 1.0 units/mg
Unit Definition	1 U corresponds to the amount of enzyme which converts 1 nmol 2-Keto-3-deoxyoctonate per hour at pH 7.0 and 37°C.

Storage and Shipping Information

Storage	−20°C