Creative Enzymes®

Native E. coli Transketolase

Cat. No. NATE-0716

Lot. No. (See product label)

Introduction

Description	Transketolase is highly specific for ketol donor substrates and is stereospecific and enantioselective to hydroxyaldehyde substrates with an (R) configuration. It specifically catalyzes the irreversible transfer of one ketol unit from α-hydroxypyruvic acid to an aldehyde to produce a D-threo (3S,4R)ketose.
Applications	Transketolase is widely used in organic synthesis.
Synonyms	Transketolase; EC 2.2.1.1; 9014-48-6; glycolaldehydetransferase; Glycolaldehyde Transferase

Product Information

Source	E. coli
EC Number	EC 2.2.1.1
CAS No.	9014-48-6
Activity	> 0.1 units/mg
Unit Definition	1 U corresponds to the amount of enzyme which will produce 1 μmol of glyceraldehyde-3-phosphate from xylulose-5-phosphate per minute at pH 7.7 and 25°C, in the presence of ribose-5-phosphate, thiamine pyrophosphate and Mg2+

Storage and Shipping Information

Storage	−20°C