

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 μ mol 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 Mg^{2+}

Storage and Shipping Information

Storage

-20°C