Creative Enzymes®

Native Baker's yeast (S. cerevisiae) Transaldolase

Cat. No. NATE-0714

Lot. No. (See product label)

Introduction

Description	Transaldolase is an enzyme (EC 2.2.1.2) of the non-oxidative phase of the pentose phosphate pathway. In humans, transaldolase is encoded by the TALDO1 gene. The following chemical reaction is catalyzed by transaldolase:sedoheptulose 7-phosphate + glyceraldehyde 3-phosphate↔ erythrose 4-phosphate + fructose 6-phosphate.
Applications	Useful in systems requiring low sulfate concentrations.
Synonyms	Transaldolase; EC 2.2.1.2; 9014-46-4; dihydroxyacetonetransferase; dihydroxyacetone synthase; formaldehyde transketolase; D-Sedoheptulose-7-phosphate:D-Glyceraldehyde-3-phosphate dihydroxyacetonetransferase

Product Information

Source	Baker's yeast (S. cerevisiae)
Form	Lyophilized, essentially sulfate-free; contains approx. 5% Citrate buffer salts
EC Number	EC 2.2.1.2
CAS No.	9014-46-4
Activity	10-30 units/mg protein (biuret)
Unit Definition	One unit will produce 1.0 µmole of D-glyceraldehyde 3-phosphate from D-fructose 6-phosphate per min in the presence of D-erythrose 4-phosphate, at pH 7.7 at 25°C in a coupled system with GDH/TPI and β-NADH.

Storage and Shipping Information

Storage	−20°C