

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 \leftrightarrow erythrose 4-phosphate + fructose 6-phosphate.

Applications

Useful in systems requiring low sulfate concentrations.

Synonyms

Transaldolase; EC 2.2.1.2; 9014-46-4; dihydroxyacetone transferase; dihydroxyacetone synthase; formaldehyde transketolase; D-Sedoheptulose-7-phosphate:D-Glyceraldehyde-3-phosphate dihydroxyacetone transferase

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 μ mole 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