Creative Enzymes®

L-rhamnose isomerase

Cat. No. EXWM-5455

Lot. No. (See product label)

Introduction

Description Contains two divalent metal ions located at different metal-binding sites within the active site. The enzyme binds the closed ring form of the substrate and catalyses ring opening to generate a form of open-chain conformation that is coordinated to one of the metal sites. Isomerization proceeds via a hydride-shift mechanism. While the enzyme from the bacterium Escherichia coli is specific for L-rhamnose, the enzyme from the bacterium Pseudomonas stutzeri has broad substrate specificity and catalyses the interconversion of L-mannose and L-fructose, L-lyxose and L-xylulose, D-ribose and D-ribulose, and D-allose and D-psicose.

Synonyms rhamnose isomerase; L-rhamnose ketol-isomerase

Product Information

Form Liquid or lyophilized powder

EC Number EC 5.3.1.14

CAS No. 9023-84-1

Reaction L-rhamnopyranose = L-rhamnulose

Notes This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.