

## 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.