

## xylose isomerase

Cat. No. EXWM-5476

Lot. No. (See product label)

### Introduction

**Description** Contains two divalent metal ions, preferably magnesium, located at different metal-binding sites within the active site. The enzyme catalyses the interconversion of aldose and ketose sugars with broad substrate specificity. The enzyme binds the closed form of its sugar substrate (in the case of glucose, only the  $\alpha$  anomer) 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.

**Synonyms** D-xylose isomerase; D-xylose ketoisomerase; D-xylose ketol-isomerase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 5.3.1.5

**CAS No.** 9023-82-9

**Reaction** D-xylopyranose = D-xylulose

**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.