Creative Enzymes®

D-arabinose isomerase

Cat. No. EXWM-5469

Lot. No. (See product label)

Introduction

Description Requires a divalent metal ion (the enzyme from the bacterium Escherichia coli prefers Mn2+). The enzyme binds the closed form of the sugar and catalyses ring opening to generate a form of open-chain conformation that facilitates the isomerization reaction, which proceeds via an ene-diol mechanism. The enzyme catalyses the aldose-ketose isomerization of several sugars. Most enzymes also catalyse the reaction of EC 5.3.1.25, L-fucose isomerase. The enzyme from the bacterium Falsibacillus pallidus also converts D-altrose to D-psicose. cf. EC 5.3.1.4, L-arabinose isomerase.

Synonyms D-arabinose(L-fucose) isomerase; L-fucose isomerase; D-arabinose ketol-isomerase; arabinose isomerase (misleading)

Product Information

Form Liquid or lyophilized powder

EC Number EC 5.3.1.3

CAS No. 9023-81-8

Reaction D-arabinose = D-ribulose

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 ℃.