

## aldos-2-ulose dehydratase

Cat. No. EXWM-4950

Lot. No. (See product label)

### Introduction

#### Description

This enzyme catalyses two of the steps in the anhydrofructose pathway, which leads to the degradation of glycogen and starch via 1,5-anhydro-D-fructose. Aldose-2-uloses such as 2-dehydroglucose can also act as substrates, but more slowly. This is a bifunctional enzyme that acts as both a lyase and as an isomerase. Differs from EC 4.2.1.111, which can carry out only reaction (1a), is inhibited by its product and requires metal ions for activity.

#### Synonyms

pyranosone dehydratase; AUDH; 1,5-anhydro-D-fructose dehydratase (microthecin-forming)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 4.2.1.110

#### CAS No.

101920-80-3

#### Reaction

1,5-anhydro-D-fructose = 2-hydroxy-2-(hydroxymethyl)-2H-pyran-3(6H)-one + H<sub>2</sub>O (overall reaction); (1a) 1,5-anhydro-D-fructose = 1,5-anhydro-4-deoxy-D-glycero-hex-3-en-2-ulose + H<sub>2</sub>O; (1b) 1,5-anhydro-4-deoxy-D-glycero-hex-3-en-2-ulose = 2-hydroxy-2-(hydroxymethyl)-2H-pyran-3(6H)-one

#### 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.