

## 3,4-dihydroxy-2-butanone-4-phosphate synthase

Cat. No. EXWM-4927

Lot. No. (See product label)

### Introduction

#### Description

Requires a divalent cation, preferably Mg<sup>2+</sup>, for activity. The reaction involves an intramolecular skeletal rearrangement, with the bonds in D-ribulose 5-phosphate that connect C-3 and C-5 to C-4 being broken, C-4 being removed as formate and reconnection of C-3 and C-5. The phosphorylated four-carbon product (L-3,4-dihydroxybutan-2-one 4-phosphate) is an intermediate in the biosynthesis of riboflavin.

#### Synonyms

DHBP synthase; L-3,4-dihydroxybutan-2-one-4-phosphate synthase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 4.1.99.12

#### Reaction

D-ribulose 5-phosphate = formate + L-3,4-dihydroxybutan-2-one 4-phosphate

#### 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.