

## (5-formylfuran-3-yl)methyl phosphate synthase

Cat. No. EXWM-5168

Lot. No. (See product label)

### Introduction

#### Description

The enzyme catalyses the reaction in the direction of producing (5-formylfuran-3-yl)methyl phosphate, an intermediate in the biosynthesis of methanofuran. The sequence of events starts with the removal of a phosphate group, followed by aldol condensation and cyclization. Methanofuran is a carbon-carrier cofactor involved in the first step of the methanogenic reduction of carbon dioxide by methanogenic archaea.

#### Synonyms

mfnB (gene name); 4-HFC-P synthase; 4-(hydroxymethyl)-2-furaldehyde phosphate synthase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 4.2.3.153

#### Reaction

2 D-glyceraldehyde 3-phosphate = (5-formylfuran-3-yl)methyl phosphate + phosphate + 2 H<sub>2</sub>O

#### 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.