Creative Enzymes®

(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 H2O
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 ℃.