

(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 °C for short term. For long term storage, store it at -20 °C~-80 °C.