

glucosyl-3-phosphoglycerate phosphatase

Cat. No. EXWM-3691

Lot. No. (See product label)

Introduction

Description

The enzyme is involved in biosynthesis of 2-O-(α -D-glucopyranosyl)-D-glycerate via the two-step pathway in which EC 2.4.1.266 (glucosyl-3-phosphoglycerate synthase) catalyses the conversion of GDP-glucose and 3-phospho-D-glycerate into 2-O-(α -D-glucopyranosyl)-3-phospho-D-glycerate, which is then converted to 2-O-(α -D-glucopyranosyl)-D-glycerate by glucosyl-3-phosphoglycerate phosphatase. In vivo the enzyme catalyses the dephosphorylation of 2-O-(α -D-mannopyranosyl)-3-phospho-D-glycerate with lower efficiency. Divalent metal ions (Mg^{2+} , Mn^{2+} or Co^{2+}) stimulate activity.

Synonyms

GpgP protein

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.1.3.85

Reaction

$2\text{-O-(}\alpha\text{-D-glucopyranosyl)-3-phospho-D-glycerate} + \text{H}_2\text{O} = 2\text{-O-(}\alpha\text{-D-glucopyranosyl)-D-glycerate} + \text{phosphate}$

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.