

## glucosylglycerate synthase

Cat. No. EXWM-2499

Lot. No. (See product label)

### Introduction

**Description** Persephonella marina possesses two enzymic systems for the synthesis of glucosylglycerate. The first one is a single-step pathway in which glucosylglycerate synthase catalyses the synthesis of 2-O-( $\alpha$ -D-glucopyranosyl)-D-glycerate in one-step from ADP-glucose and D-glycerate. The second system is a two-step pathway in which EC 2.4.1.266 (glucosyl-3-phosphoglycerate synthase) catalyses the conversion of NDP-glucose and 3-phospho-D-glycerate into 2-O-( $\alpha$ -D-glucopyranosyl)-3-phospho-D-glycerate, which is then converted to 2-O-( $\alpha$ -D-glucopyranosyl)-D-glycerate by EC 3.1.3.85 (glucosyl-3-phosphoglycerate phosphatase).

**Synonyms** Ggs (gene name)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.4.1.268

**Reaction** ADP-glucose + D-glycerate = 2-O-( $\alpha$ -D-glucopyranosyl)-D-glycerate + ADP

**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.