Creative Enzymes®

# glucosylglycerate synthase

*Cat. No. EXWM-2499*

*Lot. No.* (See product label)

## Introduction

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|---|---|
| ***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-(α-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-(α-D-glucopyranosyl)-3-phospho-D-glycerate, which is then converted to 2-O-(α-D-glucopyranosyl)-D-glycerate by EC 3.1.3.85 (glucosyl-3-phosphoglycerate phosphatase). |
| ***Synonyms*** | Ggs (gene name) |

## Product Information

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| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 2.4.1.268 |
| ***Reaction*** | ADP-glucose + D-glycerate = 2-O-(α-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

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| ***Storage*** | Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃. |