

## diacylglycerol diphosphate phosphatase

Cat. No. EXWM-3687

Lot. No. (See product label)

### Introduction

#### Description

The bifunctional enzyme catalyses the dephosphorylation of diacylglycerol diphosphate to phosphatidate and the subsequent dephosphorylation of phosphatidate to diacylglycerol (cf. phosphatidate phosphatase (EC 3.1.3.4)). It regulates intracellular levels of diacylglycerol diphosphate and phosphatidate, phospholipid molecules believed to play a signalling role in stress response. The phosphatase activity of the bifunctional enzyme is Mg<sup>2+</sup>-independent and N-ethylmaleimide-insensitive and is distinct from the Mg<sup>2+</sup>-dependent and N-ethylmaleimide-sensitive enzyme EC 3.1.3.4 (phosphatidate phosphatase). The diacylglycerol pyrophosphate phosphatase activity in *Saccharomyces cerevisiae* is induced by zinc depletion, by inositol supplementation, and when cells enter the stationary phase.

#### Synonyms

DGPP phosphatase; DGPP phosphohydrolase; DPP1; DPPL1; DPPL2; PAP2; pyrophosphate phosphatase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 3.1.3.81

#### Reaction

1,2-diacyl-sn-glycerol 3-diphosphate + H<sub>2</sub>O = 1,2-diacyl-sn-glycerol 3-phosphate + 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.