

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 Mg²⁺-independent and N-ethylmaleimide-insensitive and is distinct from the Mg²⁺-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 + H₂O = 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.