Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.