

## phosphatidate phosphatase

Cat. No. EXWM-3643

Lot. No. (See product label)

### Introduction

#### Description

This enzyme catalyses the  $Mg^{2+}$ -dependent dephosphorylation of a 1,2-diacylglycerol-3-phosphate, yielding a 1,2-diacyl-sn-glycerol (DAG), the substrate for de novo lipid synthesis via the Kennedy pathway and for the synthesis of triacylglycerol. In lipid signalling, the enzyme generates a pool of DAG to be used for protein kinase C activation. The mammalian enzymes are known as lipins.

#### Synonyms

phosphatic acid phosphatase; acid phosphatidyl phosphatase; phosphatic acid phosphohydrolase; PAP, Lipin

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 3.1.3.4

#### CAS No.

9025-77-8

#### Reaction

a 1,2-diacylglycerol 3-phosphate +  $H_2O$  = a 1,2-diacyl-sn-glycerol + 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.