Creative Enzymes®

lipid-phosphate phosphatase

Cat. No. EXWM-3681

Lot. No. (See product label)

Introduction

Description	Requires Mg2+ for maximal activity. The enzyme from mammals is a bifunctional enzyme: the N-terminal domain exhibits lipid-phosphate-phosphatase activity and the C-terminal domain has the activity of EC 3.3.2.10, soluble epoxide hydrolase (sEH). The best substrates for this enzyme are 10-hydroxy-9-(phosphonooxy)octadecanoates, with the threo- form being a better substrate than the erythro- form. The phosphatase activity is not found in plant sEH or in EC 3.3.2.9, microsomal epoxide hydrolase, from mammals.
Synonyms	hydroxy fatty acid phosphatase; dihydroxy fatty acid phosphatase; hydroxy lipid phosphatase; sEH (ambiguous); soluble epoxide hydrolase (ambiguous)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.1.3.76
Reaction	(9S,10S)-10-hydroxy-9-(phosphonooxy)octadecanoate + H2O =(9S,10S)-9,10-dihydroxyoctadecanoate + 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 ℃.