

## phosphatidylinositol-4,5-bisphosphate 4-phosphatase

Cat. No. EXWM-3683 Lot. No. (See product label)

Introduction	
Description	Two pathways exist in mammalian cells to degrade 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate [PtdIns(4,5)P2]. One is catalysed by this enzyme and the other by EC 3.1.3.36, phosphoinositide 5-phosphatase, where the product is PtdIns4P. The enzyme from human is specific for PtdIns(4,5)P2 as substrate, as it cannot use PtdIns(3,4,5)P3, PtdIns(3,4)P2, PtdIns(3,5)P2, PtdIns5P, PtdIns4P or PtdIns3P. In humans, the enzyme is localized to late endosomal/lysosomal membranes. It can control nuclear levels of PtdIns5P and thereby control p53-dependent apoptosis.
Synonyms	phosphatidylinositol-4,5-bisphosphate 4-phosphatase I; phosphatidylinositol-4,5- bisphosphate 4-phosphatase II; type I PtdIns-4,5-P2 4-Ptase; type II PtdIns-4,5-P2 4- Ptase; IpgD; PtdIns-4,5-P2 4-phosphatase type I; PtdIns-4,5-P2 4-phosphatase type II; type I phosphatidylinositol-4,5-bisphosphate 4-phosphatase; type 1 4- phosphatase
Product Information	
Form	Liquid or lyophilized powder
EC Number	EC 3.1.3.78
Reaction	1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate + H2O = 1-phosphatidyl-1D-myo- inositol 5-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.