Lambda Protein Phosphatase (Lambda PP)

Summary

Catalog No.	YVV15501
Form	Liquid
Storage buffer	100 mM NaCl, 50 mM HEPES, pH 7.5, 0.1 mM MnCl2, 0.1 mM EDTA, 2 mM DTT, 0.01% Brij35, and 50% glycerol.
Concentration	370U/μl
Purity	>90% as determined by SDS-PAGE.
Applications	Remove phosphate groups from phosphorylated serine,threonine and tyrosine residues in proteins.
Target	Lambda Protein Phosphatase (Lambda PP)
Endotoxin level	Please contact with the lab for this information.
Expression system	E. coli
Protein length	Lambda PP is cloned from Escherichia phage lambda and expressed in E.coli.
Nature	Recombinant
Predicted molecular weight	27.32 kDa
Stability and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles.Store at 2 to 8 °C for one week .Store at -20 to -80 °C for twelve months from the date of receipt.
Species	Escherichia phage lambda (Bacteriophage lambda)

Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.
Note	Avoid repeated freeze/thaw cycles. For research use only.

Description

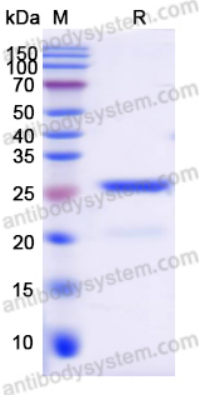
Lambda Protein Phosphatase (Lambda PP) is a Mn2+-dependent protein phosphatase with activity towards phosphorylated serine, threonine and tyrosine residues. One unit is defined as the amount of enzyme that hydrolyzes 1 nmol of p-Nitrophenyl Phosphate (50 mM) in 1 minute at 30°C in a total reaction volume of 50 µl.

Precision

Reaction Condition
1X Buffer for Lambda PP
Supplement with 1 mM MnCl2
Incubate at 30°C

Protocol
1. Combine protein sample and H2O (if necessary) to a total volume of 38 µl.
2. Add 5 µL of 10X Buffer for Lambda PP and 5 µL of 10 mM MnCl2 to make a total reaction volume of 50 µl.
3. Add 2 µl of Lambda PP.
4. Incubate at 30°C for 30 minutes.

Data Image



SDS-PAGE

SDS PAGE for recombinant Lambda Protein Phosphatase (Lambda PP)