

Active Recombinant Lambda Protein Phosphatase

Cat. No. Lambda-PPase-128L **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Lambda-PPase was expressed as a recombinant protein in E.coli and highly purified. This product is an intact enzyme of high quality without tag.
Species	Lambda
Source	E.coli
Description	Lambda Protein Phosphatase (Lambda-PPase) is a Mn ²⁺ -dependent protein phosphatase with activity towards phosphorylated serine threonine tyrosine and histidine residues.
Form	400 U/ul λ-PPase in 50mM HEPES (pH 7.5) 100mM NaCl 2mM dithiothreitol 0.1 mM MnCl ₂ 0.1mM EDTA 50% glycerol 0.01% Brij 35.
Bio-activity	400000 U/mg
Purity	Greater than 95% homogeneous protein determined by SDS-PAGE (CBB staining) that contains no detectable protease activity
Unit Definition	One unit is defined as the amount of enzyme that hydrolyzes 1 nmole of p-nitrophenyl phosphate per minute at 30°C.
Applications	Lambda-PPase can be used to release phosphate groups from phosphorylated serine threonine tyrosine and histidine residues in proteins. It should be noted that different proteins are dephosphorylated at different rates. Optimal reaction temperature is

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30°C. Inclusion of protease inhibitor cocktail and shortest incubation time is desired when assays are done with crude samples.

Storage

Store at -20°C for a week (for longer period at -70°C and avoid repeating of freezing - thawing)

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