Recombinant Rabbit PP1 Protein

Cat. No. PP1-001R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Phosphatase-1 Catalytic Subunit, α-Isoform from rabbit without tag was expressed in E.coli.
Species	Rabbit
Source	E.coli
Description	Protein phosphatase1 (PP1) is a heterodimeric enzyme with serine/threonine phosphatase activity. It comprises a catalytic subunit and a targeting subunit or a specific protein inhibitor. The targeting subunit determines the enzyme localization, e.g., to glycogen particles (subunit G) or to myofibrils (subunit M). Protein phosphatase1 (PP1) is involved in glycogen metabolism and in regulation of muscle contractility. In addition, it is implicated in cell cycle and transcriptional regulation. Recombinant rabbit PP1α has properties in common with the native rabbit muscle protein including size, requirement for Mn2+ for activity, specificity for phosphorylase A, and inhibition by okadaic acid, microcystin LR, and phosphatase inhibitor2 (I-2).
Form	Lyophilized powder
Molecular Mass	37.5 kDa
Unit Definition	One unit will hydrolyze 1 nmole of p-nitrophenyl phosphate per min at pH 7.4 at 30 centigrade.
Applications	Protein Phosphatase-1 Catalytic Subunit,

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	α-Isoform from rabbit has been used as a standard in protein phosphatase-1 inhibition assay. Protein Phosphatase-1 Catalytic Subunit, α-Isoform from rabbit has been used in protein phosphatase reaction and in the digestion of adipocyte extracts.
Storage	At −20 centigrade.
Storage Buffer	Lyophilized powder containing imidazole buffer, pH 7.4, NaCl, DTT, EDTA, MnCl2, Tween 20, and trehalose as stabilizer.

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