Creative Enzymes®

Protein Phosphatase-1 Catalytic Subunit, α-Isoform from Human, Recombinant

Cat. No. NATE-1243

Lot. No. (See product label)

Introduction

Description	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit is an enzyme that in humans is encoded by the PPP1CA gene. The protein encoded by this gene is one of the three catalytic subunits of protein phosphatase 1 (PP1). PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Increased PP1 activity has been observed in the end stage of heart failure. Studies in both human and mice suggest that PP1 is an important regulator of cardiac function. Mouse studies also suggest that PP1 functions as a suppressor of learning and memory. Three alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Applications	SDS-PAGE; WB; ELISA; IP
Synonyms	PPP1CA; protein phosphatase 1; PP-1A; PP1A; PP1alpha; PPP1A

Product Information

Species	Human
Source	E.coli
Form	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Molecular Weight	41.1kDa
Purity	> 95%

Storage and Shipping Information

Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.