

## Native Bovine Protein Phosphatase 2A1

Cat. No. NATE-0616

Lot. No. (See product label)

### Introduction

#### Description

Protein Phosphatase 2A1 is a trimer consisting of the A, B, and C subunits of the PP2A family. It has a total molecular weight of 192 kDa. Protein Phosphatase 2A is a cytoplasmic protein, which colocalizes with microtubule proteins and is involved in the dephosphorylation of the tau protein and oncoprotein 18. Protein Phosphatase 2A1 binds to polymerized microtubule proteins and may be targeted by tubulin in modulating phosphatase activity.

#### Applications

Protein Phosphatase 2A1 is a divalent cation-dependent protein serine/threonine phosphatase implicated as a growth suppressor and is associated with dysregulation in cancer. The enzyme is involved in regulating numerous cellular processes and is used to study cell cycle, growth, and differentiation. The protein phosphatase 2A1 has been used to treat human fibroblast cells prior to Western Blot analysis.

#### Synonyms

Protein Phosphatase 2A1; PP2A1; PPA2A1

### Product Information

#### Source

Bovine

#### Form

Solution in 50 mM Tris-HCl, pH 7.0, containing 14 mM 2-mercaptoethanol, 1 mM benzamidine, 0.1 mM PMSF, 1 mM EDTA, and 50% glycerol

#### Purity

>90% (SDS-PAGE)

#### Activity

> 1500 units/mg protein

#### Unit Definition

One unit will release 1.0 nanomole of phosphate from <sup>32</sup>P-labeled phosphorylase A per minute at pH 7.0 at 30°C.

### Usage and Packaging

#### Package

vial of 1 µg

### Storage and Shipping Information

#### Stability

–70°C