

## Native Rabbit Phosphorylase a

Cat. No. NATE-0562

Lot. No. (See product label)

### Introduction

#### Description

Phosphorylase A is the active form of glycogen phosphorylase which converts glycogen and orthophosphate (Pi) to glucose 1-phosphate (G-1-P). Phosphorylase A can be inhibited by these compounds: Polychlorinated biphenyls, polychlorinated biphenylols and polybrominated biphenyls. Dimeric phosphorylase b is converted to the more active tetramer, phosphorylase a, by the action of phosphorylase kinase.

#### Applications

Phosphorylase from rabbit muscle has been used in a study to assess the molecular mechanisms of oleanolic acid. It has also been used in a study to describe the conversion of phosphorylase B to A, through a conversion enzyme in the presence of 32P-ATP.

#### Synonyms

Phosphorylase a; EC 2.4.1.1; 9032-10-4; muscle phosphorylase a and b; amylophosphorylase; polyphosphorylase; amylopectin phosphorylase; glucan phosphorylase;  $\alpha$ -glucan phosphorylase; 1,4- $\alpha$ -glucan phosphorylase; glucosan phosphorylase; granulose phosphorylase; maltodextrin phosphorylase; muscle phosphorylase; myophosphorylase; potato phosphorylase; starch phosphorylase; 1,4- $\alpha$ -D-glucan:phosphate  $\alpha$ -D-glucosyltransferase; phosphorylase (ambiguous)

### Product Information

#### Species

Rabbit

#### Source

Rabbit muscle

#### Form

Lyophilized powder containing  $\beta$ -glycerophosphate and EDTA

#### EC Number

EC 2.4.1.1

#### CAS No.

9035-74-9

#### Purity

2 $\times$  crystallization

#### Activity

20-30 units/mg protein

#### Unit Definition

One unit will form 1.0  $\mu$ mole of  $\alpha$ -D-glucose 1-phosphate from glycogen and orthophosphate per min at pH 6.8 at 30°C, measured in a system containing phosphoglucomutase, NADP, and glucose-6-phosphate dehydrogenase. (One  $\mu$ molar unit is equivalent to ~45 Cori units.)

### Storage and Shipping Information

#### Storage

-20°C