

## **Native Sheep 6-Phosphogluconic Dehydrogenase**

Cat. No. NATE-0008

Lot. No. (See product label)

## Introduction

**Description** In enzymology, a phosphogluconate dehydrogenase (decarboxylating) (EC 1.1.1.44) is an enzyme that

catalyzes the chemical reaction:6-phospho-D-gluconate + NADP+ $\leftrightarrow$  D-ribulose 5-phosphate + CO2 + NADPH. Thus, the two substRates of this enzyme are 6-phospho-D-gluconate and NADP+, whereas its 3

products are D-ribulose 5-phosphate, CO2, and NADPH. This enzyme belongs to the family of

oxidoreductases, specifically those acting on the CH-OH group of donor with NAD+ or NADP+ as acceptor.

**Synonyms** 6-Phosphogluconic Dehydrogenase; phosphogluconic acid dehydrogenase; 6-phosphogluconic

dehydrogenase; 6-phosphogluconic carboxylase; 6-phosphogluconate dehydrogenase (decarboxylating); 6-phospho-D-gluconate dehydrogenase; EC 1.1.1.44; phosphogluconate dehydrogenase; decarboxylating;

9073-95-4

## **Product Information**

**Species** Sheep

**Source** Sheep liver

**Form** Lyophilized powder containing Tris buffer

**EC Number** EC 1.1.1.44

**CAS No.** 9073-95-4

**Activity** 2-10 units/mg protein

Unit One unit will oxidize 1.0 μmole of 6-phospho-D-gluconate to D-ribulose 5-phosphate and CO2 per min at

**Definition** pH 7.4 at 37°C in the presence of NADP+.

## Storage and Shipping Information

*Storage* −20°C

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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