

## phosphogluconate dehydrogenase (NADP+-dependent, decarboxylating)

Cat. No. EXWM-0329

Lot. No. (See product label)

### Introduction

**Description** The enzyme participates in the oxidative branch of the pentose phosphate pathway, whose main purpose is to produce NADPH and pentose for biosynthetic reactions. Highly specific for NADP+. cf. EC 1.1.1.343, phosphogluconate dehydrogenase (NAD+-dependent, decarboxylating).

**Synonyms** phosphogluconic acid dehydrogenase; 6-phosphogluconic dehydrogenase; 6-phosphogluconic carboxylase; 6-phosphogluconate dehydrogenase (decarboxylating); 6-phospho-D-gluconate dehydrogenase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.1.1.44

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

**Reaction** 6-phospho-D-gluconate + NADP+ = D-ribulose 5-phosphate + CO<sub>2</sub> + NADPH + H+

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### Storage and Shipping Information

**Storage** Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.