

## phosphogluconate dehydrogenase (NAD<sup>+</sup>-dependent, decarboxylating)

Cat. No. EXWM-0258

Lot. No. (See product label)

### Introduction

**Description** Highly specific for NAD<sup>+</sup>. The enzyme catalyses both the oxidation and decarboxylation of 6-phospho-D-gluconate. In the bacterium *Methylobacillus flagellatus* the enzyme participates in a formaldehyde oxidation pathway. cf. EC 1.1.1.44, phosphogluconate dehydrogenase (NADP<sup>+</sup>-dependent, decarboxylating).

**Synonyms** 6-PGDH (ambiguous); gntZ (gene name); GNDI

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.1.1.343

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

**Reaction** 6-phospho-D-gluconate + NAD<sup>+</sup> = D-ribulose 5-phosphate + CO<sub>2</sub> + NADH + H<sup>+</sup>

**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.