

## phosphogluconate 2-dehydrogenase

Cat. No. EXWM-0328

Lot. No. (See product label)

### Introduction

**Description** This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor. The systematic name of this enzyme class is 6-phospho-D-gluconate:NAD(P)<sup>+</sup> 2-oxidoreductase. Other names in common use include 6-phosphogluconic dehydrogenase, phosphogluconate dehydrogenase, gluconate 6-phosphate dehydrogenase, 6-phosphogluconate dehydrogenase (NAD<sup>+</sup>), and 2-keto-6-phosphogluconate reductase. This enzyme participates in pentose phosphate pathway and glutathione metabolism.

**Synonyms** 6-phosphogluconic dehydrogenase; phosphogluconate dehydrogenase; gluconate 6-phosphate dehydrogenase; 6-phosphogluconate dehydrogenase (NAD); 2-keto-6-phosphogluconate reductase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.1.1.43

**CAS No.** 9001-82-5

**Reaction** 6-phospho-D-gluconate + NAD(P)<sup>+</sup> = 6-phospho-2-dehydro-D-gluconate + NAD(P)H + 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.