

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⁺ or NADP⁺ as acceptor. The systematic name of this enzyme class is 6-phospho-D-gluconate:NAD(P)⁺ 2-oxidoreductase. Other names in common use include 6-phosphogluconic dehydrogenase, phosphogluconate dehydrogenase, gluconate 6-phosphate dehydrogenase, 6-phosphogluconate dehydrogenase (NAD⁺), 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)⁺ = 6-phospho-2-dehydro-D-gluconate + NAD(P)H + 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.