

phosphogluconate dehydrogenase (NAD⁺-dependent, decarboxylating)

Cat. No. EXWM-0258

Lot. No. (See product label)

Introduction

Description

Highly specific for NAD⁺. 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⁺-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⁺ = D-ribulose 5-phosphate + CO₂ + NADH + 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.