Creative Enzymes®

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); GNDl

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.