

phosphogluconate dehydrogenase [NAD(P)+-dependent, decarboxylating]

Cat. No. EXWM-0267

Lot. No. (See product label)

Introduction

Description

The enzyme participates in the oxidative branch of the pentose phosphate pathway, whose main purpose is to produce reducing power and pentose for biosynthetic reactions. Unlike EC 1.1.1.44, phosphogluconate dehydrogenase (NADP+-dependent, decarboxylating), it is not specific for NADP+ and can accept both cofactors with similar efficiency. cf. EC 1.1.1.343, phosphogluconate dehydrogenase [NAD+-dependent, decarboxylating].

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.1.1.351

CAS No.

9073-95-4

Reaction

6-phospho-D-gluconate + NAD(P)+ = D-ribulose 5-phosphate + CO₂ + 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.