Creative Enzymes®

phosphogluconate dehydrogenase (NADP+-dependent, decarboxylating)

Cat. No. EXWM-0329

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 NADPH and pentose for biosynthetic reactions. Highly specific for NADP+. cf. EC 1.1.1.343, phosphogluconate dehydrogenase (NAD+-dependent, decarboxylating).
Synonyms	phosphogluconic acid dehydrogenase; 6-phosphogluconic dehydrogenase; 6-phosphogluconic carboxylase; 6-phosphogluconate dehydrogenase (decarboxylating); 6-phospho-D-gluconate dehydrogenase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.1.1.44
CAS No.	9073-95-4
Reaction	6-phospho-D-gluconate + NADP+ = D-ribulose 5-phosphate + CO2 + NADPH + 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 ℃.