

6-Phosphogluconate dehydrogenase from E. coli, Recombinant

Cat. No. NATE-0796

Lot. No. (See product label)

Introduction

Description In enzymology, a phosphogluconate dehydrogenase (decarboxylating) (EC

1.1.1.44) is an enzyme that catalyzes the chemical reaction:6-phospho-D-gluconate + NADP+↔ D-ribulose 5-phosphate + CO2 + NADPH. Thus, the two substRates of this enzyme are 6-phospho-D-gluconate and NADP+, whereas its 3 products are D-ribulose 5-phosphate, CO2, and NADPH. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with NAD+

or NADP+ as acceptor.

Synonyms 6-Phosphogluconic Dehydrogenase; phosphogluconic acid dehydrogenase; 6-

phosphogluconic dehydrogenase; 6-phosphogluconic carboxylase; 6-

phosphogluconate dehydrogenase (decarboxylating); 6-phospho-D-gluconate dehydrogenase; EC 1.1.1.44; phosphogluconate dehydrogenase; decarboxylating;

9073-95-4

Product Information

Source E. coli

Form Liquid

EC Number EC 1.1.1.44

CAS No. 9073-95-4

Molecular Weight ∼ 52.5kD

Activity ~ 9 U/mg protein

Unit Definition One unit is the amount of enzyme required to convert one μmole of 6-phospho

gluconic acid to D-ribulose 5-phosphate per min in TEA buffer at pH 7.6 and 25°C.

1/1

Storage and Shipping Information

Storage 4°C

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