

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+ \leftrightarrow 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 ~

~ 52.5kD

Weight

Activity ~ 9 U/mg protein

Unit

One unit is the amount of enzyme required to convert one µmole of 6-phospho gluconic acid to D-ribulose

Definition 5-phosphate per min in TEA buffer at pH 7.6 and 25°C.

Storage and Shipping Information

Storage 4°C

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1/1