

Native Torula yeast Glucose-6-phosphate dehydrogenase

Cat. No. DIA-322

Lot. No. (See product label)

Introduction

Description Glucose-6-phosphate dehydrogenase (G6PD or G6PDH) (EC 1.1.1.49) is a cytosolic enzyme that catalyzes the chemical reaction: D-glucose 6-phosphate + NADP⁺ ↔ 6-phospho-D-glucono-1,5-lactone + NADPH + H⁺. This enzyme is in the pentose phosphate pathway, a metabolic pathway that supplies reducing energy to cells (such as erythrocytes) by maintaining the level of the co-enzyme nicotinamide adenine dinucleotide phosphate (NADPH).

Synonyms EC 1.1.1.49; NADP-glucose-6-phosphate dehydrogenase; Zwischenferment; D-glucose 6-phosphate dehydrogenase; glucose 6-phosphate dehydrogenase (NADP); NADP-dependent glucose 6-phosphate dehydrogenase; 6-phosphoglucose dehydrogenase; Entner-Doudoroff enzyme; glucose-6-phosphate 1-dehydrogenase; G6PDH; GPD; glucose-6-phosphate dehydrogenase; 9001-40-5

Product Information

Source Torula yeast

Form ammonium sulfate suspension; Suspension in 2.6 M (NH₄)₂SO₄ solution, pH 7.5

EC Number EC 1.1.1.49

CAS No. 9001-40-5

Activity 300-600 units/mg protein (biuret)

Unit Definition One unit will oxidize 1.0 μmole of D-glucose 6-phosphate to 6-phospho-D-gluconate per min in the presence of NADP at pH 7.4 at 25°C.

Storage and Shipping Information

Storage 2-8°C