

Native Leuconostoc mesenteroides Glucose-6-phosphate Dehydrogenase

Product Information

Cat#	DIA-321
Abbr	G6PDH, Native (Leuconostoc mesenteroides)
Alias	G6PDH; GPD
Similar	Glucose-6-phosphate dehydrogenase
Source	Leuconostoc mesenteroides
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).
Applications	Glucose-6-phosphate dehydrogenase was used as a model to test the effect of seed protein fractions on enzyme protection during dehydration. G-6-PDH has been utilized in assays for nicotinamide adenine dinucleotide and tissue pyridine nucleotides.
Form	Freeze dried powder
Enzyme Commission Number	EC 1.1.1.49
Activity	20U/mg-solid or more
CAS No.	9001-40-5
Concentration	> 2.0 mg/mL 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 NAD at pH 7.8 at 30°C.
Storage	2-8°C
Synonyms	EC 1.1.1.49; NADP-glucose-6-phosphate dehydrogenase; Zwischenferment; D-glucose

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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

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