

glucose/galactose 1-dehydrogenase

Cat. No. EXWM-0277

Lot. No. (See product label)

Introduction

Description

A zinc protein. The enzyme from the archaeon *Picrophilus torridus* is involved in glucose and galactose catabolism via the nonphosphorylative variant of the Entner-Doudoroff pathway. It shows 20-fold higher activity with NADP⁺ compared to NAD⁺. The oxidation of D-glucose and D-galactose is catalysed at a comparable rate (cf. EC 1.1.1.119, glucose 1-dehydrogenase (NADP⁺) and EC 1.1.1.120, galactose 1-dehydrogenase (NADP⁺)).

Synonyms

GdhA; dual-specific glucose/galactose dehydrogenase; glucose (galactose) dehydrogenase; glucose/galactose dehydrogenase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.1.1.360

Reaction

(1) D-glucopyranose + NADP⁺ = D-glucono-1,5-lactone + NADPH + H⁺; (2) D-galactopyranose + NADP⁺ = D-galactono-1,5-lactone + 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.