

β-Galactose Dehydrogenase S from Pseudomonas fluorescens, Recombinant

Cat. No. NATE-1710

Lot. No. (See product label)

Introduction

Description	In enzymology, a galactose 1-dehydrogenase (EC 1.1.1.48) is an enzyme that catalyzes the chemical reaction: D-galactose + NAD ⁺ → D-galactono-1,4-lactone + NADH + H ⁺ . Thus, the two substrates of this enzyme are D-galactose and NAD ⁺ , whereas its 3 products are D-galactono-1,4-lactone, NADH, and H ⁺ . This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with NAD ⁺ or NADP ⁺ as acceptor. This enzyme participates in galactose metabolism.
Applications	β-Galactose Dehydrogenase S has been used in the colorimetric microassay method to determine the level of galactose and galactose-1-phosphate in blood.
Synonyms	D-galactose:NAD ⁺ 1-oxidoreductase; D-galactose dehydrogenase; beta-galactose dehydrogenase; NAD ⁺ -dependent D-galactose dehydrogenase; galactose 1-dehydrogenase; EC 1.1.1.48; Galactose dehydrogenase

Product Information

Species	Pseudomonas fluorescens
Source	E. coli
Form	Suspension in 3.2 M ammonium sulfate solution, pH approximately 6.
EC Number	EC 1.1.1.48
Activity	80 U/mg protein
Contaminants	<0.01% ADH, <0.01% β-galactosidase, <0.1% LDH, <0.05% NADH oxidase
Notes	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.

Storage and Shipping Information

Storage	Store at -20°C.
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