Creative Enzymes®

Prokaryotic Galactose dehydrogenase, Recombinant

Cat. No. NATE-0840

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+ rightleftharpoons 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.
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

Source	Microorganism
Form	Liquid
EC Number	EC 1.1.1.48
CAS No.	9028-54-0
Molecular Weight	~ 36.6kD
Activity	~ 275 U/mg protein
Unit Definition	One unit is defined as the amount of enzyme required to convert one µmole of D-galactose to D-galactanate per minute in the presence of NAD+ in Tris-HCl buffer at pH 8.6 and 25°C.

Storage and Shipping Information

Storage	4°C