Creative Enzymes®

Uronate dehydrogenase from Agrobacterium tumefaciens, Recombinant

Cat. No. NATE-1575

Lot. No. (See product label)

Introduction

Description	In enzymology, an uronate dehydrogenase (EC 1.1.1.203) is an enzyme that catalyzes the chemical reaction: D-galacturonate + NAD+ + H2O → D-galactarate + NADH + H+. The 3 substrates of this enzyme are D-galacturonate, NAD+, and H2O, whereas its 3 products are D-galactarate, 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.
Synonyms	uronate:NAD+ 1-oxidoreductase; uronate: NAD-oxidoreductase; uronic acid dehydrogenase; EC 1.1.1.203

Product Information

Species	Agrobacterium tumefaciens
Source	E. coli
Form	3.2 M ammonium sulphate
EC Number	EC 1.1.1.203
CAS No.	37250-98-9
Molecular Weight	31.14 kDa
Purity	>95% as judged by SDS-PAGE
Activity	3000 U/ml
Optimum pH	8
Optimum temperature	37 °C
Unit Definition	One Unit of uronate dehydrogenase was defined as the amount enzyme required to produce 1 µmole of NADH from NAD+, in a reaction mixture containing 200mM TrisHCl buffer, pH 8.0, 10 mM D-glucuronic acid and 2.1 mM NAD+, at 25°C.

Storage and Shipping Information

Storage	Uronate dehydrogenase should be stored at 4 °C or and will remain stable up to 3 years if stored as specified.