

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.