

gluconate/galactonate dehydratase

Cat. No. EXWM-4981

Lot. No. (See product label)

Introduction

Description

The enzyme is involved in glucose and galactose catabolism via the nonphosphorylative variant of the Entner-Doudoroff pathway in *Picrophilus torridus* and via the branched variant of the Entner-Doudoroff pathway in *Sulfolobus solfataricus*. In vitro it utilizes D-gluconate with 6-10 fold higher catalytic efficiency than D-galactonate. It requires Mg^{2+} for activity. cf. EC 4.2.1.6, galactonate dehydratase, and EC 4.2.1.39, gluconate dehydratase.

Synonyms

gluconate dehydratase (ambiguous); Sso3198 (gene name); Pto0485 (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.2.1.140

Reaction

(1) D-gluconate = 2-dehydro-3-deoxy-D-gluconate + H_2O ; (2) D-galactonate = 2-dehydro-3-deoxy-D-galactonate + H_2O

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.