Creative Enzymes®

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 Mg2+ 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 + H2O; (2) D-galactonate = 2-dehydro-3-deoxy-D-galactonate + H2O
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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.