

2-dehydro-3-deoxyglucono/galactono-kinase

Cat. No. EXWM-3009

Lot. No. (See product label)

Introduction

Description

The enzyme from the archaeon *Sulfolobus solfataricus* is involved in glucose and galactose catabolism via the branched variant of the Entner-Doudoroff pathway. It phosphorylates 2-dehydro-3-deoxy-D-gluconate and 2-dehydro-3-deoxy-D-galactonate with similar catalytic efficiency. cf. EC 2.7.1.45, 2-dehydro-3-deoxygluconokinase and EC 2.7.1.58, 2-dehydro-3-deoxygalactonokinase.

Synonyms

KDG kinase (ambiguous); KDGK (ambiguous); 2-keto-3-deoxy-D-gluconate kinase (ambiguous)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.1.178

Reaction

(1) $\text{ATP} + 2\text{-dehydro-3-deoxy-D-gluconate} = \text{ADP} + 2\text{-dehydro-3-deoxy-6-phospho-D-gluconate}$; (2) $\text{ATP} + 2\text{-dehydro-3-deoxy-D-galactonate} = \text{ADP} + 2\text{-dehydro-3-deoxy-6-phospho-D-galactonate}$

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.