Creative Enzymes®

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) ATP + 2-dehydro-3-deoxy-D-gluconate = ADP + 2-dehydro-3-deoxy-6-phospho-D-gluconate; (2) ATP + 2-dehydro-3-deoxy-D-galactonate = ADP + 2-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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.