Creative Enzymes®

D-glycero-β-D-manno-heptose-7-phosphate kinase

Cat. No. EXWM-2997

Lot. No. (See product label)

Introduction

Description	The bifunctional protein hldE includes D-glycero-β-D-manno-heptose-7-phosphate kinase and D-glycero-β-D-manno-heptose 1-phosphate adenylyltransferase activity (cf. EC 2.7.7.70). The enzyme is involved in biosynthesis of ADP-L-glycero-β-D-manno-heptose, which is utilized for assembly of the lipopolysaccharide inner core in Gram-negative bacteria. The enzyme selectively produces D-glycero-β-D-manno-heptose 1,7-bisphosphate.
Synonyms	heptose 7-phosphate kinase; D-β-D-heptose 7-phosphotransferase; D-β-D-heptose-7-phosphate kinase; HldE1 heptokinase; glycero-manno-heptose 7-phosphate kinase; D-β-D-heptose 7-phosphate kinase/D-β-D-heptose 1-phosphate adenylyltransferase; hldE (gene name); rfaE (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.7.1.167
Reaction	D-glycero-β-D-manno-heptose 7-phosphate + ATP = D-glycero-β-D-manno-heptose 1,7-bisphosphate + ADP
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 ℃.