Creative Enzymes®

hydroxyethylthiazole kinase

Cat. No. EXWM-3081

Lot. No. (See product label)

Introduction

Description	This enzyme belongs to the family of transferases, specifically those transferring phosphorus-containing groups (phosphotransferases) with an alcohol group as acceptor. The systematic name of this enzyme class is ATP:4-methyl-5-(2-hydroxyethyl)thiazole 2-phosphotransferase. Other names in common use include hydroxyethylthiazole kinase (phosphorylating), and 4-methyl-5-(beta-hydroxyethyl)thiazole kinase. This enzyme participates in thiamine metabolism. Thiamine pyrophosphate (TPP), a required cofactor for many enzymes in the cell, is synthesised de novo in Salmonella typhimurium.
Synonyms	hydroxyethylthiazole kinase (phosphorylating); 4-methyl-5-(β-hydroxyethyl)thiazole kinase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.7.1.50
CAS No.	9026-56-6
Reaction	ATP + 4-methyl-5-(2-hydroxyethyl)thiazole = ADP + 4-methyl-5-(2-phosphonooxyethyl)thiazole
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 ℃.