

## 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**  $\text{ATP} + 4\text{-methyl-5-(2-hydroxyethyl)thiazole} = \text{ADP} + 4\text{-methyl-5-(2-phosphonoxyethyl)thiazole}$

**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 °C for short term. For long term storage, store it at -20 °C~-80 °C.