Creative Enzymes®

Prokaryotic Cytidylate kinase, Recombinant

Cat. No. NATE-0824

Lot. No. (See product label)

Introduction

Description (d)CMP kinase (EC 2.7.4.25, prokaryotic cytidylate kinase, deoxycytidylate kinase, dCMP kinase, deoxycytidine monophosphokinase) is an enzyme with system name ATP:(d)CMP phosphotransferase. This enzyme catalyses the following chemical reaction: ATP + (d)CMP ↔ ADP + (d)CDP. The prokaryotic cytidine monophosphate kinase specifically phosphorylates CMP (or dCMP).

Synonyms Cytidylate kinase; (d)CMP kinase; EC 2.7.4.25; prokaryotic cytidylate kinase; deoxycytidylate kinase; dCMP kinase; deoxycytidine monophosphokinase; ATP:CMP phosphotransferase; UMP-CMP kinase

Product Information

Source Microorganism

Form Liquid

EC Number EC 2.7.4.25

Molecular Weight ~ 26.9kD

Activity ~ 50 U/mg protein

Unit Definition One Unit is defined as the amount of enzyme required to produce one µmole of CDP from CMP and ATP per minute, in the presence of NADH, in TEA buffer at pH 7.6 and 25°C.

Storage and Shipping Information

Storage 4°C