Creative Enzymes®

Prokaryotic Guanylate Kinase, Recombinant

Cat. No. NATE-0936

Lot. No. (See product label)

Introduction

Description In enzymology, a guanylate kinase (EC 2.7.4.8) is an enzyme that catalyzes the chemical reaction:ATP + GMP↔ ADP + GDP. Thus, the two substrates of this enzyme are ATP and GMP, whereas its two products are ADP and GDP. This enzyme belongs to the family of transferases, specifically those transferring phosphorus-containing groups (phosphotransferases) with a phosphate group as acceptor. This enzyme participates in purine metabolism.

Synonyms deoxyguanylate kinase; 5'-GMP kinase; GMP kinase; guanosine monophosphate kinase; ATP:GMP phosphotransferase; GMK; Guanylate kinase

Product Information

Source Microorganism

Form Liquid

EC Number EC 2.7.4.8

CAS No. 9026-59-9

Molecular Weight ~ 25.7kD

Activity ~ 50 U/mg protein

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

Storage and Shipping Information

Storage 4°C