

Native Bovine Guanylate Kinase

Cat. No. NATE-0309

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 guanylate kinase; deoxyguanylate kinase; 5'-GMP kinase; GMP kinase; guanosine monophosphate kinase; ATP:GMP phosphotransferase; EC 2.7.4.8; 9026-59-9

Product Information

Species Bovine

Source Bovine brain

Form Lyophilized powder containing potassium phosphate buffer salts

EC Number EC 2.7.4.8

CAS No. 9026-59-9

Activity 10-40 units/mg protein

Pathway Abacavir metabolism, organism-specific biosystem; Guanine ribonucleotide biosynthesis IMP => GDP,GTP, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem

Function ATP binding; guanylate kinase activity

Unit Definition One unit will convert 1.0 μmole each of GMP and ATP to GDP and ADP per min at pH 7.5 at 30°C.

Storage and Shipping Information

Storage -20°C