Creative Enzymes®

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