

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 phosphoruscontaining 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

Tel: 1-631-562-8517 1-516-512-3133

Email: info@creative-enzymes.com

1/1