Creative Enzymes®

Guanylate kinase from Human, Recombinant

Cat. No. NATE-1637

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

Product Information

Species Human

Source E. coli

Form Liquid

Formulation 5 mg/ml in 50 mM Sodium acetate, 100 mM NaCl, 5 mM DTT, 5 mM EDTA, pH 5.0 containing 10% glycerol.

EC Number EC 2.7.4.8

Molecular Weight 23.9 kDa

Purity > 90% by SDS-PAGE

Activity >100 units/mg

Unit Definition Defined as the amount of enzyme that convert 1.0 umole of GMP and ATP to GDP and ADP per minute at pH 7.5 at 37°C in coupled system with PK/LDH.

Storage and Shipping Information

Storage at -20°C