Creative Enzymes®

GDP-Mannose pyrophosphorylase from Pyrococcus furiosus, Recombinant

Cat. No. NATE-1504

Lot. No. (See product label)

Introduction

Description In enzymology, a mannose-1-phosphate guanylyltransferase (EC 2.7.7.13) is an enzyme that catalyzes the chemical reaction: GTP + alpha-D-mannose 1-phosphate → diphosphate + GDP-mannose. Thus, the two substrates of this enzyme are GTP and alpha-D-mannose 1-phosphate, whereas its two products are diphosphate and GDP-mannose.

Synonyms GTP-mannose-1-phosphate guanylyltransferase; PIM-GMP; GDP-mannose pyrophosphorylase; guanosine 5'-diphospho-D-mannose pyrophosphorylase; guanosine diphosphomannose pyrophosphorylase; guanosine triphosphate-mannose 1-phosphate guanylyltransferase; mannose 1-phosphate guanylyltransferase (guanosine triphosphate); mannose-1-phosphate guanylyltransferase; EC 2.7.7.13

Product Information

Species Pyrococcus furiosus

Source E. coli

EC Number EC 2.7.7.13

CAS No. 37278-24-3

Purity min 95% by SDS-PAGE

Unit Definition One unit is defined as the amount of enzyme that catalyzes the formation of 1 μmol of GDP-Man from Mannose-1-P and GTP per minute at 37°C.