

Recombinant Human NME2 Nucleoside-Diphosphate Kinase

Cat. No. CEGZ-6410

Lot. No. (See product label)

Introduction

Description

A recombinant human NME2 nucleoside-diphosphate kinase that catalyzes phosphate transfer from nucleoside triphosphates to nucleoside diphosphates.

Applications

For research and in vitro nucleotide interconversion studies involving nucleoside diphosphate and triphosphate pools.

Synonyms

hNME2; NDPK; nucleoside 5'-diphosphate kinase; nucleoside diphosphokinase; nucleotide phosphate kinase; NDP kinase; ATP:nucleoside-diphosphate phosphotransferase

Product Information

Species

Homo sapiens

Source

Recombinant E. coli

Form

Liquid

EC Number

EC 2.7.4.6

CAS No.

9026-51-1

Molecular Weight

18.7 kDa

Specificity

Broad substrate spectrum for nucleoside diphosphates.

Substrates

ATP; nucleoside diphosphates

Reaction

ATP + nucleoside diphosphate = ADP + nucleoside triphosphate

Notes

Mesophilic enzyme with a broad substrate spectrum. Recombinant protein produced in E. coli and purified by His6-tag affinity chromatography. Optimal reaction time and enzyme concentration may vary depending on the substrate.

Protocol

70 mM Tris-HCl, pH 7.6 (at 37°C) 10 mM MgCl₂ 5 mM GDP 6 mM ATP 0.04 g/L enzyme 37°C, overnight

Usage

Research and in vitro use only.

Storage and Shipping Information

Storage

-20°C