

Native Hexokinase (ADP-Dependent) from Pyrococcus furiosus

Cat. No. NATE-1135

Lot. No. (See product label)

Introduction

Description In enzymology, a ADP-Dependent Hexokinase (EC 2.7.1.147) is an enzyme that catalyzes the chemical

reaction: D–Glucose + ADP → D–Glucose–6–phosphate + AMP.

Applications Useful for the enzymatic determination of ADP.

Synonyms ADP-dependent glucokinase; ADP-specific glucokinase; ADP-plucose 6-phosphotransferase; EC

2.7.1.147

Product Information

Source Pyrococcus furiosus

Appearance White amorphous powder, lyophilized

EC Number EC 2.7.1.147

CAS No. 173585-07-4

Molecular

Weight

100 kDa (gel filtration) 51 kDa (SDS-PAGE)

Activity More than 30 U/mg solid

5.1

5.0 - 10.0

Contaminants NADPH oxidase < 0.01%; ATPase < 0.01%

Isoelectric

pH Stability

point

Optimum pH 7.5

Thermal stability

Stable at 95°C and below

Scabiney

Optimum

100°C

temperature

Michaelis Constant Glucose 0.64 mM (at 37°C) ADP 0.07 mM (at 37°C)

Activators Mg2+, Co2+, Mn2+

Unit

One unit is defined as the amount of enzyme which converts 1 µmole of glucose to D-Glucose-6-

1/1

Definition phosphate per minute at 37°C under the conditions specified in the assay procedure.

Storage and Shipping Information

Storage Storage at -20° C in the presence of a desiccant is recommended.

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