

Native Hexokinase (ADP-Dependent) from Thermococcus litoralis

Cat. No. NATE-1136

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 1,5 Anhydroglucitol.

Synonyms ADP-dependent glucokinase; ADP-specific glucokinase; ADP:D-glucose 6-

phosphotransferase; EC 2.7.1.147

Product Information

Source Thermococcus litoralis

Appearance White amorphous powder, lyophilized

EC Number EC 2.7.1.147

CAS No. 173585-07-4

Molecular Weight 50 kDa (gel filtration) 50 kDa (SDS-PAGE)

Activity More than 25 U/mg solid

Contaminants NADPH oxidase < 0.01%; ATPase < 0.01%

Isoelectric point 4.1

pH Stability 6.5–10.5

Optimum pH 7–7.5

Thermal stability Stable at 95°C and below

Optimum temperature 100°C

Michaelis Constant Glucose 0.4 mM (at 37°C) ADP 0.057 mM (at 37°C)

Activators Mg2+

Unit Definition One unit is defined as the amount of enzyme which converts 1 μmole of D–glucose

to D–Glucose–6–phosphate per minute at 37°C under the conditions specified in

the assay procedure.

Storage and Shipping Information

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

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

Email: info@creative-enzymes.com

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