

Native *Flavobacterium meningosepticum* Glycerol kinase

Cat. No. NATE-1155

Lot. No. (See product label)

Introduction

Description The activity of glycerol kinase is found widely in nature. In microorganisms GK makes possible the utilization of glycerol as a carbon source. In mammals the enzyme represents a juncture of sugar and fat metabolism; The enzyme is important to the clinical chemist in the determination of glycerol. GK is also useful in the assay of glyceraldehydes and dihydroxyacetone following their quantitative reduction to glycerol with sodium borohydride.

Applications Useful for the measurement of Triglyceride.

Synonyms glycerokinase; GK; ATP: glycerol-3-phosphotransferase; glycerol kinase phosphorylating; glyceric kinase; EC 2.7.1.30

Product Information

Source *Flavobacterium meningosepticum*

Appearance White to light grayish white amorphous powder, lyophilized.

Form Freeze dried powder

EC Number EC 2.7.1.30

Molecular Weight 150 kDa (TSK G3000SWXL) 50 kDa (SDS-PAGE)

Activity More than 70 U/mg solid

Contaminants Hexokinase < 0.05%; Catalase < 0.1%; ATPase < 0.01%; Myokinase < 0.05%

Isoelectric point 4.3

pH Stability 5.0–11.0

Optimum pH 8

Thermal stability Stable at 60°C and below

Optimum temperature 80°C

Michaelis Constant Glycerol 8.8×10^{-5} M ATP 3.0×10^{-5} M

Unit Definition One unit is defined as the amount of enzyme which converts 1 μ mole of glycerol to glycerol-3-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.