

Alkaline Phosphatase from Shrimp, Recombinant

Cat. No. NATE-0807

Lot. No. (See product label)

Introduction

Description Alkaline phosphatase (ALP, ALKP, ALPase, Alk Phos) (EC 3.1.3.1) is a hydrolase enzyme responsible for

removing phosphate groups from many types of molecules, including nucleotides, proteins, and alkaloids. The process of removing the phosphate group is called dephosphorylation. As the name suggests, alkaline phosphatases are most effective in an alkaline environment. It is sometimes used synonymously as basic phosphatase. Shrimp alkaline phosphatase is a heat labile, hydrolase enzyme. It is a high specific activity alkaline phosphatase purified from a recombinant source. There are two preferred sites for enzyme activity: 5' protruding, recessive and blunt 5'-termini. The enzyme is

irreversibly heat inactivated at 65°C for 15 minutes.

Applications Alkaline phosphatase was used to examine its role in the prevention of high-fat-diet-induced metabolic

syndrome in mice. It also may be used in pasteurization process for milks used in dairy products.

Synonyms Alkaline phosphatase; ALP; ALKP; ALPase; Alk Phos; EC 3.1.3.1; Alkaline phosphomonoesterase;

Glycerophosphatase; Phosphomonoesterase

Product Information

Species Shrimp

Source Proprietary host

Form Solution in 50% glycerol containing 25 mM Tris-HCl, pH 7.5, 1 mM MgCl2

EC Number EC 3.1.3.1

CAS No. 9001-78-9

Concentration >1,000 DEA units/ml

Unit One unit will hydrolyze 1 μmole of 4-nitrophenyl phosphate per minute at pH 9.8 at 37 °C.

Definition

Storage and Shipping Information

Storage Store at -20°C

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