Creative Enzymes®

Native Porcine Alkaline Phosphatase

Cat. No. NATE-0059

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.
Applications	Alkaline phosphatase is used for conjugation to antibodies and other proteins for ELISA, Western blotting, and hist ochemical detection. Alkaline phosphatase is also used to prevent DNA self ligation and for radiolabeling.
Synonyms	Alkaline phosphatase; ALP; ALKP; ALPase; Alk Phos; EC 3.1.3.1; Alkaline phosphomonoesterase; Glycerophosphatase; Phosphomonoesterase

Product Information

Species	Porcine
Source	Porcine kidney
Form	Lyophilized fromTris-HCl buffer, with magnesium chloride and zinc chloride, pH 8.0
EC Number	EC 3.1.3.1
CAS No.	9001-78-9
Activity	100-300 DEA units/mg protein
Unit Definition	One unit will hydrolyze 1.0 µmole of p-nitrophenyl phosphate per min at pH 9.8 at 37°C.

Usage and Packaging

Package	Package size based on DEA units

Storage and Shipping Information

Storage	−20°C