Creative Enzymes®

Native Calf Alkaline Phosphatase

Cat. No. NATE-0054

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

Product Information

Species	Calf
Source	Calf intestine
Form	A solution in 50% glycerol containing 5mM Tris, 5mM MgCl2 and 0.1mMZnCl2.
EC Number	EC 3.1.3.1
CAS No.	9001-78-9
Purity	Chromatographically purified, EIA grade.
Activity	> 3,000 units per mg protein (37°C, pH9.8, DEA)
Concentration	20mg/ml
Unit Definition	One Unit hydrolyzes 1µmole of p-nitrophenol phosphate per minute at 37°C, pH 9.8.

Storage and Shipping Information

Storage	2-8°C