

Native Human Alkaline Phosphatase

Cat. No. NATE-0947

Lot. No. (See product label)

Introduction

Description

Alkaline Phosphatase (ALP) is a hydrolase enzyme responsible for removing phosphate groups in the 5- and 3- positions from many types of molecules, including nucleotides, proteins, and alkaloids. In humans, alkaline phosphatase is present in all tissues throughout the entire body, but is particularly concentrated in liver, bile duct, kidney, bone, and the placenta. The optimal pH for the enzyme activity is pH=10 in standard conditions.

Synonyms

Alkaline phosphatase; ALP; ALKP; ALPase; Alk Phos; EC 3.1.3.1; Alkaline phosphomonoesterase; Glycerophosphatase; Phosphomonoesterase; HL-ALP

Product Information

Species

Human

Source

Human Liver

Appearance

Brown to tan suspension

Form

Liquid; Suspension in 3.1M ammonium sulfate with tris chloride, magnesium and zinc, pH 7.4.

EC Number

EC 3.1.3.1

CAS No.

9001-78-9

Purity

Purified (Control Grade)

Activity

> 25 U/mL

Contaminants

AST/GOT: < 10% gGT: < 10% NOTE: Custom purification available

Optimum pH

10

Unit Definition

One unit will catalyze the hydrolysis of one micromole of p-nitrophenyl phosphate per minute at 37°C and pH 10.35 in the presence of 2-amino-2-methyl-1-propanol.

Storage and Shipping Information

Storage

2-8°C

Stability

2 years