

## Alkaline phosphatase (placental) from Human , Recombinant

Cat. No. NATE-1664

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

ALPP; Alkaline phosphatase Regan isozyme; Placental alkaline phosphatase 1; PLAP-1

### Product Information

#### Species

Human

#### Source

Baculovirus

#### Form

Liquid

#### EC Number

EC 3.1.3.1

#### Molecular Weight

This protein is fused with 6x His tag at C terminus (23-506 aa) and the protein has a calculated MW of 53.9 kDa (118aa). The protein migrates at 50-70KDa in SDS-PAGE under reducing conditions.

#### Purity

> 95% by SDS-PAGE

#### Activity

> 2,500 units/mg

#### Concentration

0.5 mg/ml

#### Endotoxin Level

< 1.0 EU per 1µg of protein

#### Unit Definition

One unit is defined as the amount of enzyme that hydrolyzes 1.0 nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37C.

### Storage and Shipping Information

#### Storage

Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.