Creative Enzymes®

Alkaline phosphatase from Mouse, Recombinant

Cat. No. NATE-1634

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	Alpl; Akp-2; Akp2; ALP; APTNAP; TNAP; TNSALP; HOPS; tissue-nonspecific isozyme

Product Information

Species	Mouse
Source	Insect cell (Baculovirus) and fused to His-tag at C-terminus
Form	Liquid
Formulation	0.5 mg/ml solution in 20 mM Tris-HCl (pH 8.0) containing 20% glycerol.
EC Number	EC 3.1.3.1
Molecular Weight	54.5 kDa
Purity	> 95% by SDS-PAGE
Activity	> 46,000 pmol/min/ug
Concentration	0.5 mg/ml
Endotoxin Level	< 1 EU/μg
Unit Definition	Defined as the amount of enzyme that hydrolyze 1pmole of 4-Methylumbelliferyl phosphate to phosphate and 4-Methylumbelliferone per minute at pH 8.8 at 25°C.

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.