

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.