

Native Acid Phosphatase from Microbial

Cat. No. NATE-1170

Lot. No. (See product label)

Introduction

Description Acid phosphatases (APase) are a family of enzymes that non-specifically catalyze the hydrolysis of monoesters and anhydrides of phosphoric acid to produce inorganic phosphate at an optimum pH of 4 to 7. Acid phosphatase from potatoes is a 111 kDa dimer consisting of two subunits at 41 and 35 kDa. This phosphatase has also been shown to cleave DNA.

Applications Hydrolysis of phosphate monoesters

Synonyms acid phosphatase; 9001-77-8; acid phosphomonoesterase; phosphomonoesterase; glycerophosphatase; acid monophosphatase; acid phosphohydrolase; acid phosphomonoester hydrolase; uteroferrin; acid nucleoside diphosphate phosphatase; orthophosphoric-monoester phosphohydrolase (acid optimum); EC 3.1.3.2; APase

Product Information

Source Microbial

Form Suspension in Ammonium Sulphate

EC Number EC 3.1.3.2

CAS No. 9001-77-8

Activity > 40 U/mg; > 100 U/ml

Optimum pH 5.5

Optimum temperature 37 °C

Unit Definition One Unit will hydrolyze 1.0 micromole of p-nitrophenyl phosphate per minute at pH 5.5

Usage and Packaging

Preparation Instructions Swirl to mix the suspension immediately prior to use.

Storage and Shipping Information

Storage 4°C