Creative Enzymes®

Native Wheat germ Acid Phosphatase

Cat. No. NATE-0084

Lot. No. (See product label)

Introduction

Description	Native Wheat Germ Acid Phosphatase for advanced research on phosphatase activity and plant enzymology. Perfect for biochemical and agricultural studies. Creative Enzymes ensures high-purity solutions.
Applications	Acid phosphatase (APase) non-specifically catalyzes the hydrolysis of monoesters and anhydrides of phosphoric acid to produce inorganic phosphate. It is used to study the production, transport, and recycling of phosphate and the metabolic and energy transduction pr ocesses of the cell. This product is from wheat germ and has been used to determine the effect of phosphatase treatment on 3F3/2 staining.
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	Wheat germ
EC Number	EC 3.1.3.2
CAS No.	9001-77-8
Molecular Weight	58 kDa (gel filtration)
Activity	> 0.4 unit/mg solid
pH Stability	4.0–7.0
Optimum pH	5.7
Optimum temperature	45°C.
Unit Definition	One unit will hydrolyze 1.0 μmole of p-nitrophenyl phosphate per min at pH 4.8 at 37°C.

Storage and Shipping Information

Storage	−20°C