Creative Enzymes®

# Native Wheat germ Acid Phosphatase

*Cat. No. NATE-0084*

*Lot. No.* (See product label)

## Introduction

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| ***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

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| ***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

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| ***Storage*** | −20°C |