

## **Native Porcine Adenosine 5'-Triphosphatase**

Cat. No. NATE-0089 Lot. No. (See product label)

**Product Information** 

Introduction	
Description	ATPases are a class of enzymes that catalyze the decomposition of ATP into ADP and a free phosphate ion. This dephosphorylation reaction releases energy, which the enzyme (in most cases) harnesses to drive other chemical reactions that would not otherwise occur. This process is widely used in all known forms of life. Some such enzymes are integral membrane proteins (anchored within biological membranes), and move solutes across the membrane, typically against their concentRation gradient. These are called transmembrane ATPases.
Applications	ATPase is used to liberate inorganic phosphorus from ATP. ATPase, from porcine cerebral cortex, has been used in inhibition assays of Na/K-ATPase activity.
Synonyms	ATP phosphohydrolase; ATPase; Adenosine 5'-Triphosphatase; EC 3.6.1.3; adenylpyrophosphatase; ATP monophosphatase; triphosphatase; SV40 T-antigen; adenosine 5'-triphosphatase; ATP hydrolase, complex V (mitochondrial electron transport); (Ca2+ + Mg2+)-ATPase; HCO3ATPase; adenosine triphosphatase

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Species	Porcine
Source	Porcine cerebral cortex
Form	Lyophilized powder containing 90% sucrose, 0.4% EDTA Na4 and 0.06% NaCl
EC Number	EC 3.6.1.3
CAS No.	9000-83-3
Activity	> 0.3 units/mg protein
Pathway	Adrenergic signaling in cardiomyocytes, organism-specific biosystem; Aldosterone- regulated sodium reabsorption, conserved biosystem; Cardiac muscle contraction, conserved biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Cardiac muscle contraction, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, conserved biosystem
Function	ATP binding; potassium ion binding; sodium ion binding; ATPase activator activity; protein binding; sodium:potassium-exchanging ATPase activity
Unit Definition	One unit will liberate 1.0 $\mu$ mole of inorganic phosphorus from ATP per min at pH 7.8 at 37°C in the presence of Na+, K+, and Mg2+.

## Storage and Shipping Information

-20°C

Storage