Creative Enzymes®

apyrase

Cat. No. EXWM-4623

Lot. No. (See product label)

Introduction

Description	Apyrases are active against both di- and triphosphate nucleotides (NDPs and NTPs) and hydrolyse NTPs to nucleotide monophosphates (NMPs) in two distinct successive phosphate-releasing steps, with NDPs as intermediates. They differ from ATPases, which specifically hydrolyse ATP, by hydrolysing both ATP and ADP. The eukaryotic enzymes requires Ca2+, but Mg2+ can substitute. Most of the ecto-ATPases that occur on the cell surface and hydrolyse extracellular nucleotides belong to this enzyme family.
Synonyms	ATP-diphosphatase; adenosine diphosphatase; ADPase; ATP diphosphohydrolase [ambiguous]

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.6.1.5
CAS No.	9000-95-7
Reaction	a nucleoside 5'-triphosphate + 2 H2O = a nucleoside 5'-phosphate + 2 phosphate (overall reaction); (1a) a nucleoside 5'-triphosphate + H2O = a nucleoside 5'-diphosphate + phosphate; (1b) a nucleoside 5'-diphosphate + H2O = a nucleoside 5'-phosphate + phosphate
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.