

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 Ca^{2+} , but Mg^{2+} 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 H_2O = a nucleoside 5'-phosphate + 2 phosphate (overall reaction); (1a) a nucleoside 5'-triphosphate + H_2O = a nucleoside 5'-diphosphate + phosphate; (1b) a nucleoside 5'-diphosphate + H_2O = 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.