

Alkaline Phosphatase [CIAP]

Catalog number: 11900, 11901
Unit size: 5000 U, 5 mg

Product Details

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	6 months upon receiving

Chemical Properties

Appearance	Liquid
Soluble In	Water

Applications

Calf Intestinal Alkaline Phosphatase (CIP or CIAP) nonspecifically catalyzes the dephosphorylation of 5' and 3' ends of DNA and RNA phosphomonoesters. CIAP also hydrolyses ribo-, as well as deoxyribonucleoside triphosphates (NTPs and dNTPs). CIAP is useful in many molecular biology applications such as the removal of phosphorylated ends of DNA and RNA for subsequent use in cloning or end-labeling of probes. In cloning, dephosphorylation prevents religation of linearized plasmid DNA. The enzyme acts on 5' protruding, 5' recessed and blunt ends. CIAP may also be used to degrade unincorporated dNTPs in PCR reactions to prepare templates for DNA sequencing or SNP analysis. CIAP conjugates have been widely used in immunological assays and tests in combination with a variety of color or fluorogenic AP substrates. AAT Bioquest offers the largest collection of fluorogenic AP substrates for developing AP-based ELISA assays and tests.