
Product Data Sheet

Product Name: Alkaline Phosphatase Bovine

Cat. No.: GP21429

Batch No.: 1

Product Data

Purity >98%

Source Calf Intestine.

Physical
Appearance solid

Shipping
Condition Shipped with Ice Packs.

Synonyms EC 3.1.3.1; IAP; AP; ALPI; Intestinal-type alkaline phosphatase; Intestinal alkaline phosphatase.

Formulation 50% glycerol, 5mM MgCl₂, 0.1mM ZnCl₂ and 5mM TRIS, pH 7.0.

Biological Activity

>1500 U/mg (pH 9.6), 25°C and 0.025M glycine, 10% glycerol as buffer.

Stability

AP should be stored at 4°C . Please Do-Not freeze.

Background

The Alkaline Phosphatase is purified by affinity chromatography, which results in an enzyme of high specific activity and purity. Alkaline Phosphatase is Dimeric protein having a molecular weight of 140 kDa, one Zn⁺⁺ ion is tightly bound to each subunit, and another less tightly bound is involved in the catalytic reaction. Mg⁺⁺ stimulates the catalysis. The binding site for Mg⁺⁺ is different to that of Zn⁺⁺, but will be occupied by excess Zn⁺⁺ followed by loss of enzyme activity.

Caution: Product has not been fully validated for medical applications. For research use only.

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