Bovine Intestinal Alkaline Phosphatase

Cat. No. BIAP-74B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Bovine
Source	Calf Intestine
Physical Appearance	Sterile Filtered clear colorless solution (11.1 mg/ml).
Purity	95% pure by Gel Filtration.
Formulation	50% glycerol, 5 mM MgCl2, 0.1 mM ZnCl2 and 5 mM TRIS, pH 7.0.
Biological Activity	>1500 U/mg (pH 9.6, 37°C and 0.025 M glycin, 10% glycerol as buffer).
Stability	AP although stable at 14°C for 1 weeks, should be stored at 4°C. Please Do-Not freeze.

GENE INFORMATION

Synonyms	EC 3.1.3.1; IAP; AP; Alk_phosphatase; glycerophosphatase; Kasahara isozyme;

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	alkaline phosphatase, intestinal; alkaline phosphomonoesterase; intestinal alkaline phosphatase; alkaline phosphatase; alkaline phosphomonoesterase; phosphomonoesterase; glycerophosphatase; alkaline phosphohydrolase; alkaline phenyl phosphatase; orthophosphoric-monoester phosphohydrolase (alkaline optimum); phosphate-monoester phosphohydrolase (alkaline optimum).

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