

# Native Bovine Intestinal Alkaline Phosphatase

**Cat. No.** BIAP-76B    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Native Bovine Intestinal Alkaline Phosphatase was purified from bovine intestinal mucosa.                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Bovine                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Bovine Intestinal Mucosa                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | Alkaline phosphatase (ALP, ALKP) is a hydrolase enzyme responsible for removing phosphate groups from many types of molecules, including nucleotides, proteins, and alkaloids. The process of removing the phosphate group is called dephosphorylation. As the name suggests, alkaline phosphatases are most effective in an alkaline environment. It is sometimes used synonymously as basic phosphatase. |
| <b>Molecular Mass</b>   | dimer mol wt ~160 kDa                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Applications</b>     | High specific activity grade recommended for antibody and protein conjugation.                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>          | 2-8°C                                                                                                                                                                                                                                                                                                                                                                                                      |

## GENE INFORMATION

|                        |                                                      |
|------------------------|------------------------------------------------------|
| <b>Gene Name</b>       | ALPI alkaline phosphatase, intestinal [ Bos taurus ] |
| <b>Official Symbol</b> | ALPI                                                 |

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|                            |                                                                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>            | IAP; intestinal-type alkaline phosphatase; intestinal alkaline phosphatase V                                                                                     |
| <b>Gene ID</b>             | <a href="#">280993</a>                                                                                                                                           |
| <b>mRNA Refseq</b>         | <a href="#">NM_173987</a>                                                                                                                                        |
| <b>Protein Refseq</b>      | <a href="#">NP_776412</a>                                                                                                                                        |
| <b>Chromosome Location</b> | 2q45                                                                                                                                                             |
| <b>Pathway</b>             | Folate biosynthesis, organism-specific biosystem; Folate biosynthesis, conserved biosystem; tetrahydrofolate biosynthesis I mammals, organism-specific biosystem |
| <b>Function</b>            | alkaline phosphatase activity; magnesium ion binding; zinc ion binding                                                                                           |

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