

## Recombinant Cattle ALPL Protein, His-tagged

**Cat. No.** ALPL-123C    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Cattle ALPL Protein (Leu18-Arg335) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Cattle                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | Leu18-Arg335                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Alkaline phosphatase that metabolizes various phosphate compounds and plays a key role in skeletal mineralization and adaptive thermogenesis.                                                                                                                                                                                                |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 39.2 kDa<br>Accurate Molecular Mass: 42 kDa                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>        | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.                                                     |
| <b>Reconstitution</b> | Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                            |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ALPL alkaline phosphatase, biomineralization associated [ Bos taurus (cattle) ]                                                                                                                                                                                                                                                    |
| <b>Official Symbol</b> | ALPL                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>        | ALPL; alkaline phosphatase, biomineralization associated; TNAP; TNS-AP; alkaline phosphatase, tissue-nonspecific isozyme; AP-TNAP; TNSALP; alkaline phosphatase liver/bone/kidney isozyme; alkaline phosphatase, liver/bone/kidney; liver/bone/kidney isozyme; phosphoamidase; phosphocreatine phosphatase; EC 3.1.3.1; EC 3.9.1.1 |
| <b>Gene ID</b>         | 280994                                                                                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>     | NM_176858                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Refseq</b>  | NP_789828                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID</b>      | P09487                                                                                                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA