Recombinant Human Alkaline phosphatase (Intestinal type)/ALPI Protein

Catalog No.: RP00679

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Sequence Information

Species	Gene ID
Human	248
Swiss Prot	**Tags**
P09923	C-6His

Synonyms
ALPI, Intestinal-type alkaline phosphatase, IAP, Intestinal alkaline phosphatase, EC:3.1.3.1

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE.
Calculated MW	**Observed MW**
53.15 kDa	60-75 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Recombinant Human Alkaline phosphatase (Intestinal type)/ALPI Protein encodes for intestinal phosphatase alkaline, a brush border metalloenzyme that hydrolyses phosphate from the lipid A moiety of lipopolysaccharides and thereby drastically reduces Toll-like receptor 4 agonist activity. ALPI mutations impaired either stability or catalytic activity of ALPI and rendered it unable to detoxify lipopolysaccharide-dependent signalling. ALPI mutations should be included in screening for monogenic causes of inflammatory bowel diseases and lay the groundwork for ALPI-based treatments in intestinal inflammatory disorders.

Basic Information

Description
Recombinant Human Alkaline phosphatase (Intestinal type)/ALPI Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val20-Thr502) of Human Alkaline phosphatase (Intestinal type)/ALPI (Accession #NP_001622.2) fused with His tag at the C-terminus.

Activity
Measured by its ability to cleave a fluorogenic substrate, 4-Methylumbelliferyl phosphate (4-MUP). The specific activity is >10412.60 pmol/min/μg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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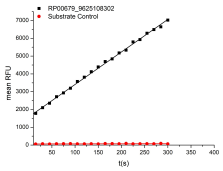
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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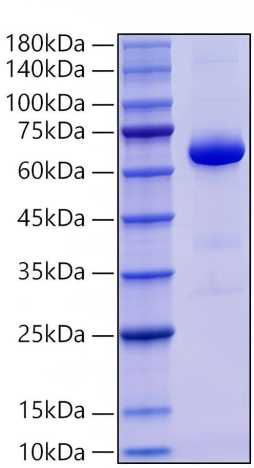

Recombinant Human Alkaline phosphatase (Intestinal type)/ALPI Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.