

RP00679

Leader in Biomolecular Solutions for Life Science



Recombinant Human Alkaline phosphatase (Intestinal type)/ALPI Protein

Catalog No.: RP00679 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	248	P09923

Tags

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

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 stabilizer (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.

Bio-Activity

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Contact



www.abclonal.com

* For your safety and health, please wear a lab coat and disposable gloves when handling.