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Recombinant Human Alkaline Phosphatase/ALPI Protein (His Tag)

Catalog No. PKSH030690

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms IAP
Species Human

Expression Host HEK293 Cells **Sequence** Met 1-Asp 503

AccessionP09923Calculated Molecular Weight54.0 kDaObserved molecular weight66 kDaTagC-His

Bioactivity Measured by its ability to cleave a fluorogenic substrate, 4-Methylumbelliferyl

phosphate (4-MUP). The specific activity is > 1000 pmoles/min/μg.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin $< 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

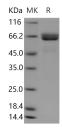
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

ALPI encodes for intestinal phosphatase alkaline; a brush border metalloenzyme that hydrolyses phosphate from the lipid

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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.

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