

RP03154

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Recombinant Human Alkaline Phosphatase (Germ type) /ALPG Protein

Catalog No.: RP03154 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	251	P10696

Tags

C-6His

Synonyms

ALPG; ALPPL; ALPPL2; Alkaline phosphatase; germ cell type; EC:3.1.3.1; ALP-1; Alkaline phosphatase Nagao isozyme; Alkaline phosphatase; placental-like; Germ cell alkaline phosphatase; GCAP; Placental alkaline phosphatase-like; PLAP-like

Product Information

Source	Purification
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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.	≥ 95 % as determined by SDS-PAGE.
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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.

Background

Alkaline phosphatase can be considered "our favorite enzyme" for reasons apparent to those who diagnose and treat metabolic bone diseases or who study skeletal biology. Few might know, however, that alkaline phosphatase likely represents the most frequently assayed enzyme in all of medicine. Elevated activity in the circulation is universally recognized as a marker for skeletal or hepatobiliary disease.

Basic Information

Description

Recombinant Human Alkaline Phosphatase (Germ type) /ALPG Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile20-Asp502) of human ALPG (Accession #NP_112603) fused with a His tag at the C-terminus.

Bio-Activity

Measured by its ability to cleave a fluorogenic substrate, 4-Methylumbelliferyl phosphate (4-MUP). The specific activity is >26430.03 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.

Operational Notes

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

Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

Reconstitution

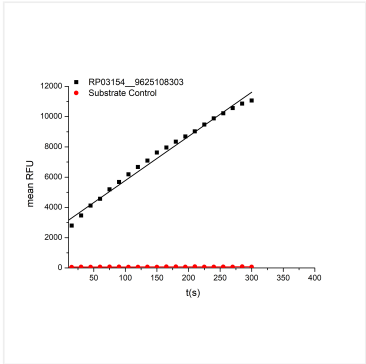
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Contact

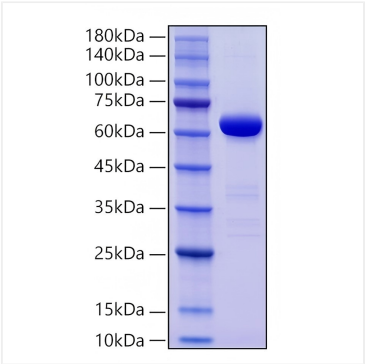


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Validation Data



Measured by its ability to cleave a fluorogenic substrate, 4-Methylumbelliferyl phosphate (4-MUP). The specific activity is >26430.03 pmol/min/μg.



Recombinant Human Alkaline Phosphatase (Germ type) /ALPG Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.