

# Recombinant Human Alkaline Phosphatase (Germ type) /ALPG Protein

Catalog No.: RP03154 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	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
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
53.28 kDa	50-66 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## 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

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### 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.

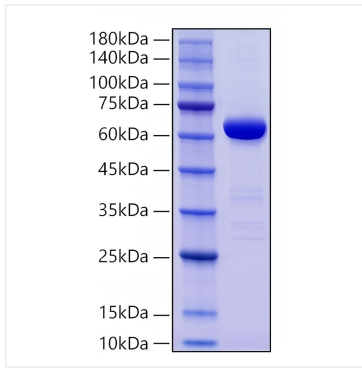
### Operational Notes

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

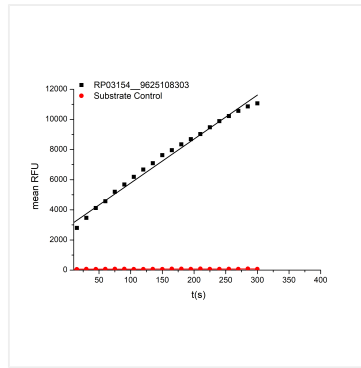


## Validation Data

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



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