

Recombinant Human Alkaline Phosphatase (Germ type) /ALPG Protein

Catalog No.: RP03154

Sequence Information

Species	Gene ID
Human	251
Swiss Prot	Tags
P10696	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.

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.

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.

Storage

Store at -20°C

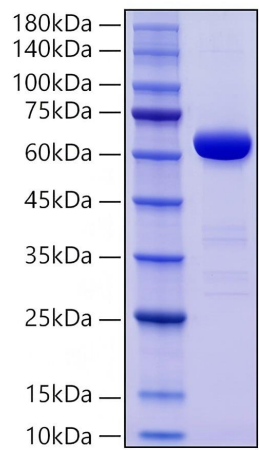
Operational Notes

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

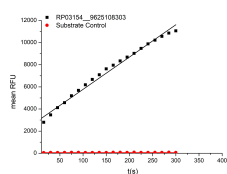
Contact

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Validation Data



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



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