

## Alkaline Phosphatase/ALPG Protein, Human (HEK293, His)

|                   |   |
|-------------------|---|
| Cat. No.:         | HY-P700952  |
| Synonyms:         | Alkaline Phosphatase; ALP-1; Alkaline phosphatase, placental-like; GCAP; PLAP-like; ALPG; ALPPL; ALPPL2 |
| Species:          | Human   |
| Source:           | HEK293  |
| Accession:        | P10696 (I20-D503)   |
| Gene ID:          | 251   |
| Molecular Weight: | 58-68 kDa   |

### PROPERTIES

|                     |  |
|---------------------|--|
| Biological Activity | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.   |
| Appearance          | Solution.  |
| Formulation         | Supplied as a 0.22 $\mu$ m filtered solution of 25mM Tris, 100mM NaCl, 1mM MgCl <sub>2</sub> , pH 7.5.   |
| Endotoxin Level     | <1 EU/ $\mu$ g, determined by LAL method.  |
| Reconstitution      | N/A.   |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping            | Shipping with dry ice.   |

### DESCRIPTION

#### Background

The Alkaline Phosphatase/ALPG protein is an enzyme that possesses the capability to hydrolyze a range of phosphate compounds. It exhibits the ability to break down various phosphate molecules through its enzymatic activity. This protein acts as an alkaline phosphatase, catalyzing the hydrolysis of phosphate esters in an alkaline environment. Its enzymatic activity allows it to cleave phosphate groups from molecules such as nucleotides, proteins, and phospholipids, rendering them inactive. This versatile enzyme plays a vital role in various physiological processes, including bone mineralization, cellular signaling, and metabolism.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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