Active Recombinant Human ALPG Protein, His-tagged

Cat. No. ALPG-10995H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALPG, His Tag is expressed from human 293 cells (HEK293). It contains AA Ile 20 - Asp 503 (Accession # P10696-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Ile 20. The protein is designed as a dimer.
Species	Human
Source	HEK293
ProteinLength	20-503 aa
Description	ALPPL2 is specifically highly expressed in naïve pluripotent stem cells. Moreover, in naïve state somatic cell reprogramming, naïve-primed transformation and other systems, the use of the ALPPL2 promoter-driven fluorescent reporter system can specifically indicate the establishment or withdrawal of naïve state pluripotency, thereby identifying ALPPL2 as naïve state pluripotent. specific cell surface markers. Some studies have found that knockout of ALPPL2 can specifically affect the establishment, stability and maintenance of naïve state pluripotency, proving that ALPPL2 protein is a functional naïve state surface molecular marker.
Form	Lyophilized from 0.22 μm filtered solution in 20 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Human ALPG, His Tag at 1 μg/mL (100 μL/well) can bind Anti - ALPG/ALPPL2 with a linear range of 0.002-0.125 μg/mL.

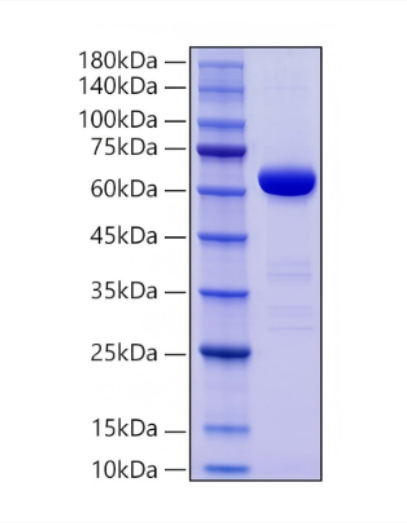
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Molecular Mass	The protein has a calculated MW of 54.5 kDa. The protein migrates as 60-66 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	ALPG alkaline phosphatase, germ cell [Homo sapiens (human)]
Official Symbol	ALPG
Synonyms	ALPG; alkaline phosphatase, germ cell; GCAP; ALPPL; ALPPL2; alkaline phosphatase, germ cell type; ALP-1; Nagao isozyme; alkaline phosphatase Nagao isozyme; alkaline phosphatase, placental like 2; alkaline phosphatase, placental-like; germ cell alkaline phosphatase; placental-like alkaline phosphatase; testicular and thymus alkaline phosphatase; EC 3.1.3.1
Gene ID	251

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mRNA Refseq	NM_031313
Protein Refseq	NP_112603
MIM	171810
UniProt ID	P10696
SDS-PAGE.	

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