Mouse ALPG / ALPPL2 Protein, His Tag (MALS verified)

Catalog # ALG-M52H9

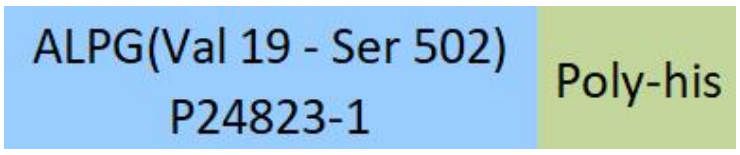
Synonym

ALPG,GCAP,ALP-1,ALPPL2,PLAP-like,ALPPL,Alkaline phosphatase, germ cell type

Source

Mouse ALPG, His Tag(ALG-M52H9) is expressed from human 293 cells (HEK293). It contains AA Val 19 - Ser 502 (Accession # P24823-1).
Predicted N-terminus: Val 19

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 54.5 kDa. The protein migrates as 60-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in 20mM Tris,150mM NaCl,pH 7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

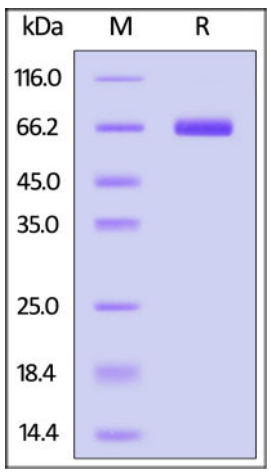
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

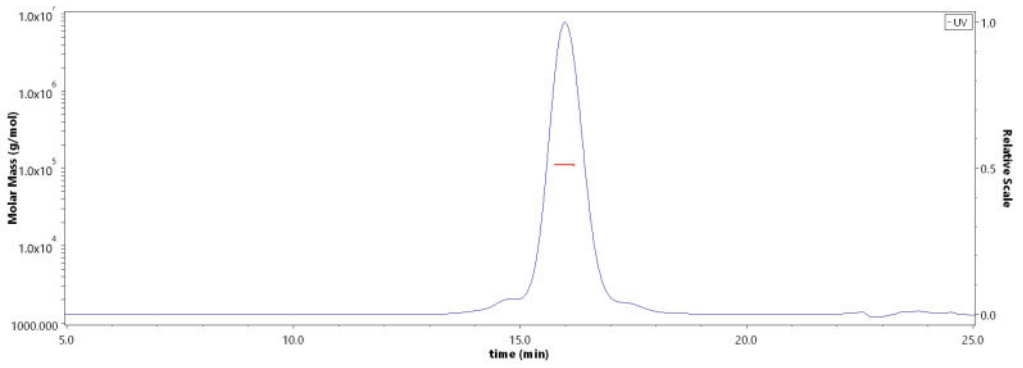
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Mouse ALPG, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Mouse ALPG, His Tag(Cat. No. ALG-M52H9) is more than 90% and the molecular weight of this protein is around 100-122 kDa verified by SEC-MALS.
Report

Background

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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.