

## Serpin F2 Protein, Cynomolgus, Recombinant (His)

### General Information

Synonyms:	API;A2AP;ALPHA-2-PI; $\alpha$ -2-AP; $\alpha$ -2-PI;SERPINF2;Alpha-2-AP;AAP;Serpin F2;PLI
Protein Construction:	Met27-Lys490
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A0A2K5WNU6
Molecular Weight:	52.83 kDa (predicted). Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Cynomolgus SERPINF2, His Tag at 1 $\mu$ g/ml (100 $\mu$ l/Well) on the plate. Dose response curve for Anti-SERPINF2 Antibody, hFc Tag with the EC50 of 0.64 $\mu$ g/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Large-pool solvent/detergent (SD) plasma for transfusion exhibits reduced alpha 2-antiplasmin (alpha2-AP; SERPINF2) functional activity. The reason for the loss of alpha2-AP has not been described and could be due to the SD incubation itself and/or to the processing steps implemented to remove the solvent and the detergent.

Reference

Burnouf T, et al. Impact of Triton X-100 on alpha 2-antiplasmin (SERPINF2) activity in solvent/detergent-treated plasma. *Biologicals*. 2007 Oct;35(4):349-53. doi: 10.1016/j.biologicals.2007.03.002. Epub 2007 Jul 26. PMID: 17656111.

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