

## Transthyretin/Prealbumin Protein, Cynomolgus, Recombinant (His)

### General Information

Synonyms:	Prealbumin;TBPA;CTS;HEL111;Transthyretin;TTR;ATTR;CTS1;HsT2651;PALB
Protein Construction:	Gly21-Glu147
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	Q8HXW1
Molecular Weight:	14.80 kDa (predicted). Due to glycosylation, the protein migrates to 16-20 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm 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 μg/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

Transthyretin is a highly conserved homotetrameric protein, mainly synthesized by the liver and the choroid plexus of brain. The carrier role of TTR is well-known; however, many other functions have emerged, namely in the nervous system. TTR aggregates are responsible for many amyloidosis such as familial amyloidotic polyneuropathy and cardiomyopathy. Normal TTR can also aggregate and deposit in the heart of old people and in preeclampsia placental tissue.

Reference

Vieira M, Saraiva MJ. Transthyretin: a multifaceted protein. Biomol Concepts. 2014 Mar;5(1):45-54. doi: 10.1515/bmc-2013-0038. PMID: 25372741.

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