

Human Transthyretin/Prealbumin Protein

Cat. No. TSR-HM201



Description

Source	Recombinant Human Transthyretin/Prealbumin Protein is expressed from HEK293 with hFc (IgG1) tag at the C-terminus.
	It contains Gly21-Glu147.
Accession	NP_000362
Molecular Weight	The protein has a predicted MW of 39.70 kDa. Due to glycosylation, the protein migrates to 45-52 kDa and 95-100 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

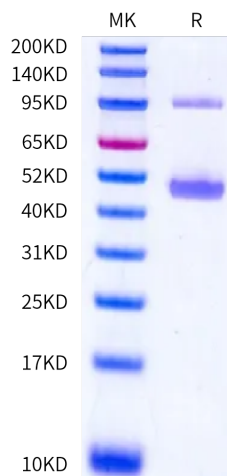
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

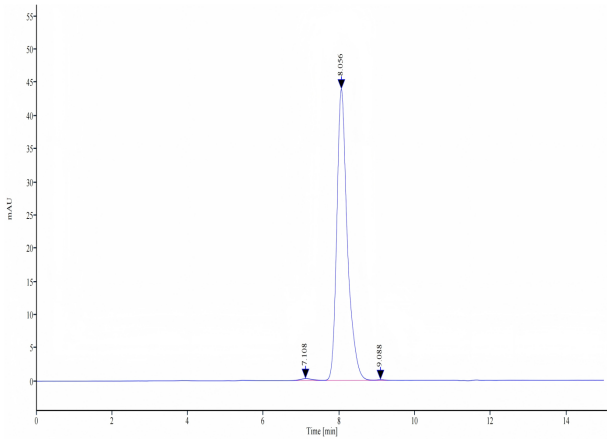
Bis-Tris PAGE



Human Transthyretin on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Human Transthyretin is greater than 95% as determined by SEC-HPLC.