Human Transthyretin/Prealbumin Protein

Cat. No. TSR-HM101

Description

Source	Recombinant Human Transthyretin/Prealbumin Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Gly21-Glu147.
Accession	NP_000362
Molecular Weight	The protein has a predicted MW of 14.9 kDa. Due to glycosylation, the protein migrates to 16 kDa and 39 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

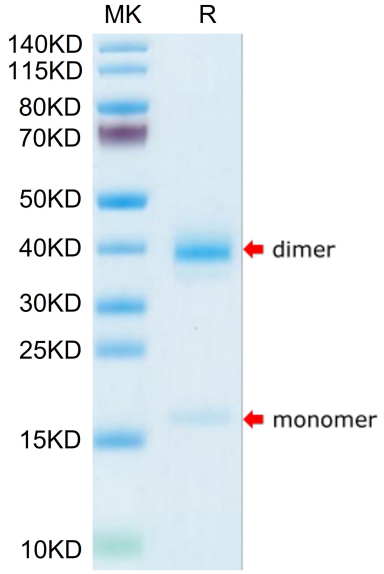
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
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 synthetized 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/Prealbumin on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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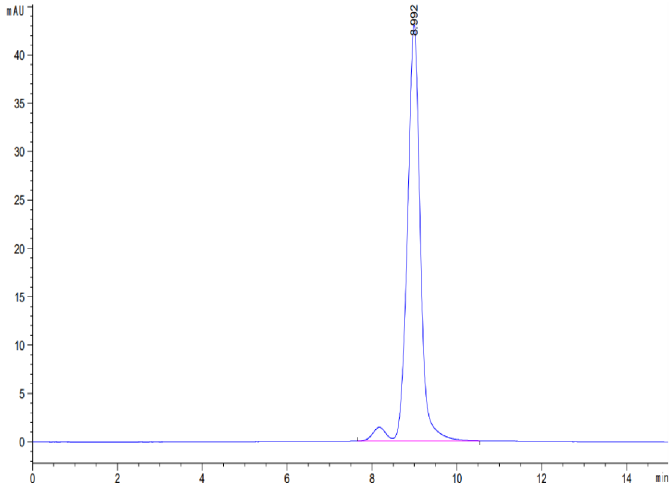
Assay Data



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