PRODUCT INFORMATION

Target	TTR
Synonyms	CTS; TTN; ATTR; CTS1; PALB; TBPA; HEL111; HsT2651
Description	Recombinant human TTR Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P02766
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	TTR(Gly21-Glu147) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 39.9 kDa after removal of the signal peptide. The apparent molecular mass of TTR-hFc is approximately 35-55 kDa due to glycosylation.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	This gene encodes one of the three prealbumins, which include alpha-1-antitrypsin, transthyretin and orosomucoid. The encoded protein, transthyretin, is a homo-tetrameric carrier protein, which transports thyroid hormones in the plasma and cerebrospinal fluid. It is also involved in the transport of retinol (vitamin A) in the plasma by associating with retinol-binding protein. The protein may also be involved in other intracellular processes including proteolysis, nerve regeneration, autophagy and glucose homeostasis. Mutations in this gene are associated with amyloid deposition, predominantly affecting peripheral nerves or the heart, while a small percentage of the gene mutations are non-amyloidogenic. The mutations are implicated in the etiology of several diseases, including amyloidotic polyneuropathy, euthyroid hyperthyroxinaemia, amyloidotic vitreous opacities, cardiomyopathy, oculoleptomeningeal amyloidosis, meningocerebrovascular amyloidosis and carpal tunnel syndrome. [provided by RefSeq, Aug 2017]
Usage	Research use only
Conjugate	Unconjugated

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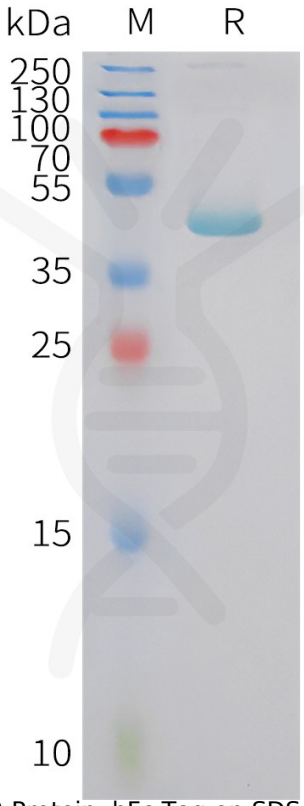


Figure 1. Human TTR Protein, hFc Tag on SDS-PAGE under reducing condition.

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