

Recombinant Human TTR protein, His-tagged

Cat. No. TTR-3880H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TTR protein (Gly21-Glu147), fused to His-tag at the N-terminus, was expressed in HEK293 Cells.
Species	Human
Source	HEK293
ProteinLength	Gly21-Glu147
Description	Prealbumin/Transthyretin, also known as ATTR, Prealbumin, TTR and PALB, is a secreted and cytoplasm protein which belongs to the Prealbumin / Transthyretin family. Prealbumin / Transthyretin is detected in serum and cerebrospinal fluid (at protein level). It is highly expressed in choroid plexus epithelial cells. It is also detected in retina pigment epithelium and liver. Each monomer of Prealbumin / Transthyretin has two 4-stranded beta sheets and the shape of a prolate ellipsoid. Antiparallel beta-sheet interactions link monomers into dimers. A short loop from each monomer forms the main dimer-dimer interaction. These two pairs of loops separate the opposed, convex beta-sheets of the dimers to form an internal channel. Prealbumin/Transthyretin is a carrier protein. It transports thyroid hormones in the plasma and cerebrospinal fluid, and also transports retinol (vitamin A) in the plasma. Defects in Prealbumin / Transthyretin are the cause of amyloidosis type 1 (AMYL1) which is a hereditary generalized amyloidosis due to Prealbumin / Transthyretin amyloid deposition. Protein fibrils can form in different tissues leading to amyloid polyneuropathies, amyloidotic cardiomyopathy, carpal tunnel syndrome, systemic

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senile amyloidosis. The diseases caused by mutations include amyloidotic polyneuropathy, euthyroid hyperthyroxinaemia, amyloidotic vitreous opacities, cardiomyopathy, oculoleptomeningeal amyloidosis, meningocerebrovascular amyloidosis, carpal tunnel syndrome, etc.

Predicted N Terminal	His
Form	Lyophilized from sterile PBS, pH 7.4, 5% trehalose, 5% mannitol and 0.01% Tween80.
Molecular Mass	The recombinant human TTR consists of 142 amino acids and predicts a molecular mass of 15.7 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	>(10.9+84.3)% as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

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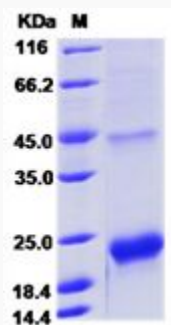
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GENE INFORMATION

Gene Name	TTR
Official Symbol	TTR
Synonyms	CTS; ATTR; CTS1; PALB; TBPA; HEL111; HsT2651
Gene ID	7276
mRNA Refseq	NM_000371.4
Protein Refseq	NP_000362.1
MIM	176300
UniProt ID	P02766

SDS-PAGE of TTR-3880H



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