

Recombinant Human TTR

Cat. No. TTR-31111TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Prealbumin expressed in <i>Saccharomyces cerevisiae</i> ; MWt 15.9 kDa. Protein is tagged with a 26 kDa proprietary tag.
Species	Human
Description	This gene encodes transthyretin, one of the three prealbumins including alpha-1-antitrypsin, transthyretin and orosomucoid. Transthyretin is a carrier protein; it transports thyroid hormones in the plasma and cerebrospinal fluid, and also transports retinol (vitamin A) in the plasma. The protein consists of a tetramer of identical subunits. More than 80 different mutations in this gene have been reported; most mutations are related to amyloid deposition, affecting predominantly peripheral nerve and/or the heart, and a small portion of the gene mutations is non-amyloidogenic. The diseases caused by mutations include amyloidotic polyneuropathy, euthyroid hyperthyroxinaemia, amyloidotic vitreous opacities, cardiomyopathy, oculoleptomeningeal amyloidosis, meningocerebrovascular amyloidosis, carpal tunnel syndrome, etc.
Tissue specificity	Detected in serum and cerebrospinal fluid (at protein level). Highly expressed in choroid plexus epithelial cells. Detected in retina pigment epithelium and liver.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES,

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	30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MASHRLLLLCLAGLVFVSEAGPTGTGESKCPLMVKVLDVAV RGSPAINVAVHVFRKA ADDTWEPFASGKTSESGELHGL TTEEEFVEGIYKVEIDTKSYWKALGISPFHEHAEV VFTANDSGPRRYTIAALLSPYSYSTTAVVTNPKE
Sequence Similarities	Belongs to the transthyretin family.
Full Length	Full L.

GENE INFORMATION

Gene Name	TTR transthyretin [Homo sapiens]
Official Symbol	TTR
Synonyms	TTR; transthyretin; PALB, prealbumin, amyloidosis type I; HsT2651;
Gene ID	7276
mRNA Refseq	NM_000371
Protein Refseq	NP_000362
MIM	176300
Uniprot ID	P02766
Chromosome	18q12.1

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Location	
Pathway	Amyloids, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem;
Function	hormone activity; hormone binding; protein binding;

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