

## Recombinant Human TTR protein, His-tagged

Cat. No. TTR-728H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human TTR aa. (Gly21~Glu147) fused with N-terminal His tag was produced in E. coli cells.

**Species** Human

**Source** E.coli

**ProteinLength** Gly21~Glu147

**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.

**Form** Freeze-dried powder

**Molecular Mass** 17kDa as determined by SDS-PAGE reducing conditions.

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<b>Endotoxin</b>	<1.0EU per 1g (determined by the LAL method)
<b>Purity</b>	>98%
<b>Characteristic</b>	The isoelectric point is 5.9.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Concentration</b>	200g/mL
<b>Storage buffer</b>	PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
<b>Reconstitution</b>	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	TTR transthyretin [ Homo sapiens (human) ]
<b>Official Symbol</b>	TTR
<b>Synonyms</b>	TTR; transthyretin; CTS; CTS1; PALB; TBPA; HEL111; HsT2651; ATTR; carpal tunnel syndrome 1; epididymis luminal protein 111; prealbumin, amyloidosis type I; thyroxine-binding prealbumin

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Gene ID	7276
mRNA Refseq	NM_000371.3
Protein Refseq	NP_000362.1
UniProt ID	P02766

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