

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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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>98%
Characteristic	The isoelectric point is 5.9.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200g/mL
Storage buffer	PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
Reconstitution	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TTR transthyretin [Homo sapiens (human)]
Official Symbol	TTR
Synonyms	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
SDS-PAGE	