Recombinant Human TTR Protein, His-tagged

Cat. No. TTR-2774H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TTR Protein (Met1-Val105) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Val105
Description	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.
Form	Freeze-dried powder

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Molecular Mass	Predicted Molecular Mass: 13.3 kDa
Endotoxin	<1.0 EU per 1μg (determined by the LAL method).
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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 centigrade 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 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	TTR transthyretin [Homo sapiens (human)]
Official Symbol	TTR
Synonyms	TTR; transthyretin; PALB, prealbumin, amyloidosis type I; HsT2651; ATTR; carpal tunnel syndrome 1; thyroxine-binding prealbumin; prealbumin, amyloidosis type I; CTS; CTS1; PALB; TBPA;
Gene ID	7276

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mRNA Refseq	NM_000371
Protein Refseq	NP_000362
MIM	176300
UniProt ID	P02766

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