Recombinant Human TTR Protein, 21-147aa, F87M and L110M Mutation, N-His tagged

Cat. No. TTR-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TTR Protein (21-147aa, F87M and L110M Mutation) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	21-147aa
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.

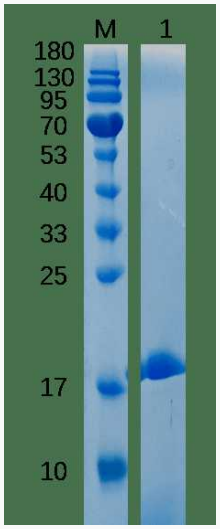
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Form	Liquid
Molecular Mass	Theoretical molecular weight: ~ 16 kDa
AA Sequence	MHHHHHHDDDDKGPTGTGESKCPLMVKVLDAVRGSPAINVAVHVFRKAADDTWEP FASGKTSESGELHGLTTEEEFVEGIYKVEIDTKSYWKALGISPMHEHAEVVFTANDS GPRRYTIAAMLSPYSYSTTAVVTNPKE*
Purity	> 90% as determined by SDS-PAGE
Storage	Short Term Storage at +4 centigrade, Long Term, please prepare aliquots with 20% glycerol and store at -20 to -80 centigrade. Avoid freeze/thaw cycles.
Storage Buffer	In 140 mM NaCl, 2.7 mM KCl, 10 mM Na2HPO4, 1.8 mM KH2PO4 , pH 8.0.

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
mRNA Refseq	NM_000371
Protein Refseq	NP_000362

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MIM	176300
UniProt ID	P02766
15% SDS-PAGE analysis profiles of purified TTR, F87M/L110M (CBB stained)	 Lane M: Protein Marker Lane 1: TTR, F87M/L110M, Reducing (5 μg)

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