

TTR Protein

Human Recombinant Transthyretin Y78F
Variant Protein Filaments
Catalog No. SPR-465



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Product Name

TTR Protein

Description

Human Recombinant Transthyretin Y78F Variant Protein Filaments

Applications

WB, SDS-PAGE, In vivo assay, In vitro assay

Concentration

Lot/batch specific. See included datasheet.

Conjugates

No tag

Nature

Recombinant

Species

Human

Expression System

E. coli

Purity

>95%

Protein Length

Full Length

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For research use only.

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Properties

Storage Buffer

PBS pH 7.4

Storage Temperature

-80°C

Shipping Temperature

Dry Ice. Shipping note: Product will be shipped separately from other products purchased in the same order.

Purification

Ion-exchange Purified

Specificity

15.887 kDa

Cite This Product

Human Recombinant TTR Protein (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPR-464)

Certificate Of Analysis

Certified >95% pure using SDS-PAGE analysis.

Biological Description

Alternative Names

Amyloid polyneuropathy Protein, Amyloidosis I Protein, ATTR Protein, Carpal tunnel syndrome 1 Protein, CTS Protein, CTS1 Protein, HEL111 Protein, HsT2651 Protein, PALB Protein, Prealbumin Protein, Prealbumin amyloidosis type I Protein, Prealbumin Thyroxine-binding Protein, TBPA Protein, Thyroxine binding prealbumin Protein, Transthyretin Protein, TTHY_HUMAN Protein, TTR Protein

Research Areas

Alzheimer's Disease, Axon Markers, Cell Markers, Cell Signaling, Cytoskeleton, Microtubules, MT Associated Proteins, Neurodegeneration, Neuron Markers, Neuroscience, Tangles & Tau

Cellular Localization



Cytoplasm, Extracellular exosome, Extracellular Region, Lysosome

Accession Number

NP_000362.1

Gene ID

7276


Swiss Prot

P02766

Scientific Background

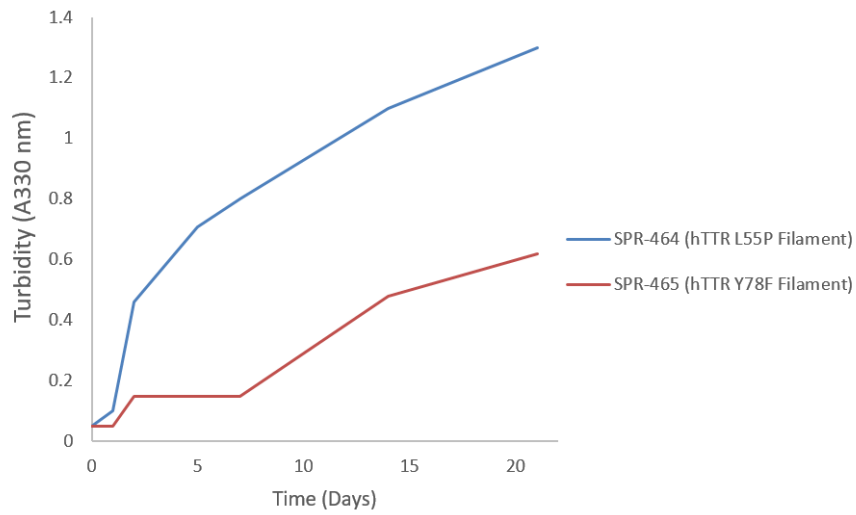
Transthyretin is a transport protein in the serum and cerebrospinal fluid that carried the thyroid hormone Thyroxine and retinol-binding protein bound to retinol. TTR misfolding and aggregation is known to be associated with the amyloid diseases SSA, FAP and FAC (1-5). TTR is also thought to have beneficial side effects, such as binding to beta-amyloid protein, preventing beta-amyloid from accumulating into the plaques associated with Alzheimer's Disease (6). The mutant variant Y78F indicates a destabilization of the contacts between the alpha-helix and AB loop and the body of the molecule, potentially leading to applications in immune therapy for FAP (7).

References

1. Zeldenrust S.R., Benson M.D. (2010). Wiley. pp. 795–815. 
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 3. Andrade C. (1952). Brain. 75(3): 408–27.
 4. Coelho T. (1996). Curr. Opin. Neurol. 9(5): 355–9.
 5. Jacobson D.R, et. al. (1997). N. Engl. J. Med. 336(7): 466–73. 6. Li X. (2011). Mol Neurodegener. 6(1):79. 7. Terazaki H.,m et al. (2006) Lab Invest. 86(1): 23-31.
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Product Images





Turbidity Assay shows increased turbidity in Human Recombinant Transthyretin Y78F Variant Protein Filaments (SPR-465)

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.

