

## Transthyretin Human

**Description:** Transthyretin Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 128 amino acids (21-147 a.a.) and having a molecular weight of 13.8kDa. The Transthyretin is purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-778

For research use only.

**Synonyms:** TTHY, TTR, ATTR, TBPA, Transthyretin, Prealbumin, PALB, HsT2651.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGPTGTGESK CPLMKVLDA VRGSPAINVA VHVFRKAADD  
TWEPFASGKT SESGELHGLT TEEFVEGIY KVEIDTKSYW KALGISPFHEHAEVVFTAND  
SGPRRYTIAA LLSPYSYSTT AVVTNPKE.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

The Transthyretin protein solution contains 1x PBS, pH-7.4, and 10% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Prealbumin is a thyroid hormone-binding protein that transports thyroxine from the bloodstream to the brain. Prealbumin is a carrier protein which transports thyroid hormones in the plasma and cerebrospinal fluid, and also transports retinol (vitamin A) in the plasma. Transthyretin consists of a tetramer of identical subunits and is dominantly produced in the liver. Mutations in Prealbumin are related to amyloid deposition, affecting predominantly peripheral nerve and/or the heart. The diseases caused by mutations include amyloidotic polyneuropathy, euthyroid hyperthyroxinaemia, amyloidotic vitreous opacities, cardiomyopathy, oculoleptomeningeal amyloidosis, meningocerebrovascular amyloidosis, and carpal tunnel syndrome. Prealbumin is an indicator of protein-energy malnutrition since it has a circulating half life of 2 days and reacts swiftly to changes in nutritional status.

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