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## Product Data Sheet

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Product Name: Prealbumin Human

Cat. No.: GP26326

Batch No.: 1

**Product Data**

Purity &gt;98% Source Human serum.

Physical Appearance solid Shipping Condition atRoomtemp.

Synonyms TTHY, TTR, ATTR, TBPA, Transthyretin, Prealbumin, PALB, HsT2651TTHY, TTR, ATTR, TBPA, Transthyretin, Prealbumin, PALB, HsT2651.

Solubility It is recommended to reconstitute the lyophilized Prealbumin Human in phosphate buffer pH &gt; 7 containing 0.15M NaCl.

Formulation The protein was lyophilized (0.2 µm filtered) from 20mM NH<sub>4</sub>HCO<sub>3</sub>.**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.

**Stability**

Prealbumin Human although stable at room temperature for 3 weeks, should be stored between 2-8°C.

**Background**

Human Transthyretin dimer protein produced in Human plasma having a molecular

**Caution: Product has not been fully validated for medical applications. For research use only.**

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mass of 30kD. Under certain conditions it may be shown as a monomer (15kD) or a tetramer (60kD).

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