
Product Data Sheet

Product Name: Transthyretin Human

Cat. No.: GP24223

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	TTHY; TTR; ATTR; TBPA; Transthyretin; Prealbumin; PALB; HsT2651.		
Amino Acid Sequence	MGPTGTGESK CPLMVKVLDA VRGSPAINVA VHVFRKAADD TWEPFASGKT SESGELHGLT TEEEFVEGIY KVEIDTKSYW KALGISPFHEHAEEVVFTAND SGPRRYTIAA LLSPYSYSTT AVVTNPKE.		
Formulation	The Transthyertin protein solution contains 1x PBS, pH-7.4, and 10% glycerol.		

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

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.

Background

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

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Transthyertin 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 Transthyertin is purified by proprietary chromatographic techniques.

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