

Transthyretin/TTR Protein, Human (127a.a, HEK293, His)

Cat. No.:	HY-P70500
Synonyms:	Transthyretin; ATTR; Prealbumin; TBPA; TTR; PALB
Species:	Human
Source:	HEK293
Accession:	P02766 (G21-E147)
Gene ID:	7276
Molecular Weight:	(16-21) & (31-37) kDa

PROPERTIES

AA Sequence	<p>G P T G T G E S K C P L M V K V L D A V R G S P A I N V A V H V F R K A A D D T</p> <p>W E P F A S G K T S E S G E L H G L T T E E E F V E G I Y K V E I D T K S Y W K</p> <p>A L G I S P F H E H A E V V F T A N D S G P R R Y T I A A L L S P Y S Y S T T A</p> <p>V V T N P K E</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0 or 20 mM PB, 150 mM NaCl, pH 7.8.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Transthyretin/TTR Protein serves as a thyroid hormone-binding protein, likely playing a crucial role in transporting thyroxine from the bloodstream to the brain. Forming a homotetramer, it is structured as a dimer of dimers, with subunits assembling around a central channel capable of accommodating two ligand molecules. This suggests a functional significance in the binding and transport of thyroxine. Additionally, Transthyretin/TTR Protein interacts with RBP4, highlighting potential cooperative actions in the regulation of thyroid hormone dynamics. The homotetrameric configuration and ligand-binding properties underscore the importance of Transthyretin/TTR in facilitating the transport and distribution of thyroid hormones, emphasizing its role in maintaining endocrine balance.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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