

## Transthyretin/TTR Protein, Human (HEK293, Fc-Myc)

Cat. No.:	HY-P72026
Synonyms:	ATTR Prealbumin; TBPA; PALB;
Species:	Human
Source:	HEK293
Accession:	P02766 (G21-E147)
Gene ID:	7276
Molecular Weight:	Approximately 47 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>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized RBP4 at 5 µg/mL can bind human TTR, the EC <sub>50</sub> of human TTR protein is 594.9-1441 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of PBS, 6% Trehalose, pH 7.4.
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 <sub>2</sub> O.
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</p>
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and distribution of thyroid hormones, emphasizing its role in maintaining endocrine balance.

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

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