

# Recombinant human Transthyretin/Prealbumin protein

Catalog Number: ATGP0456

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

21-147aa

### UniProt No.

P02766

### NCBI Accession No.

NP\_000362.1

### Alternative Names

TTR, Transthyretin, TBPA, ATTR, PALB, Amyloid polyneuropathy, Amyloidosis I, Dysprealbuminemic euthyroidal hyperthyroxinemia, Dystransthyretinemic hyperthyroxinemia, HsT2651, Prealbumin amyloidosis type I, Senile systemic amyloidosis, TTR protein.

### Additional Information

N- terminal Sequence Analysis: Met-Gly-Pro-Thr-Gly

## PRODUCT SPECIFICATION

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### Molecular Weight

13.8 kDa (128aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

Non-Tagged

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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## BACKGROUND

### Description

Prealbumin, also known Transthyretin, is a tetrameric human plasma protein that is synthesized mainly in the liver. This protein transports the thyroid hormone thyroxine (T4) and retinol (Vitamin A). It is the best indicator of protein-energy malnutrition because it has a circulating half life of 2 days and responds rapidly to changes in nutritional status. Also point-mutations of its gene are known to be associated with the amyloid diseases senile systemic amyloidosis (SSA), familial amyloid polyneuropathy (FAP), and familial amyloid cardiomyopathy (FAC). Recombinant human Prealbumin was expressed in *E. coli* and purified by using conventional chromatography.

### Amino acid Sequence

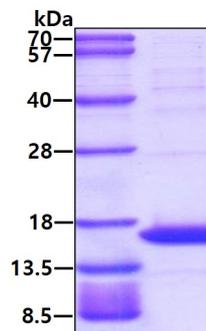
MGPTGTGESK CPLMVKVLDA VRGSPAINVA VHVFRKAADD TWEPFASGKT SESGELHGLT TEEEFVEGIY KVEIDTKSYW  
KALGISPFHE HAEVVFTAND SGPRRYTIAA LLSPPSYSTT AVVTNPKE

### General References

Ando Y., et al. (2009) Rinsho Byori. 57(3):228-35.  
Shenkin A., et al. (2006) Clin Chem. 52(12):2177-9.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.