Recombinant human Transthyretin/Prealbumin protein

Catalog Number: ATGP0456

PRODUCT INFORMATION

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

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.

Recombinant human Transthyretin/Prealbumin protein

Catalog Number: ATGP0456

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

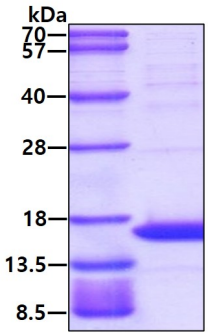
MGPTGTGESK CPLMVKVLDA VRGSPAINVA VHVFRKAADD TWEPFASGKT SESGELHGLT TEEEFVEGIY KVEIDTKSYW KALGISPFHE HAEVVFTAND SGPRRYTIAA LLSPYSYSTT AVVTNPKE

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.