

For Research Use Only

Recombinant Human Prealbumin/Transthyretin protein (His Tag)

Catalog Number: Eg0930



Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human Prealbumin protein Gly21-Glu147 (Accession# P02766) with a His tag at the N-terminus.

GeneID:
7276

Accession:
P02766

Predicted Molecular Mass:
14.8 kDa

SDS-PAGE:
16 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Transthyretin (TTR) is a plasma transport protein for thyroxine and retinol, through the association with retinol-binding protein. It is a homotetrameric protein synthesized mainly in liver, choroid plexus, retinal pigment epithelium, and pancreas. Within the CNS, TTR is the only known protein synthesized solely by the choroid plexus. Mutant and wildtype TTR give rise to various forms of amyloid deposition (amyloidosis). Defects in TTR are the cause of amyloidosis transthyretin-related (AMYL-TTR), hyperthyroxinemia dystransthyretinemic euthyroidal (HTDE) and carpal tunnel syndrome type 1 (CTS1). In addition, positive immunostaining for TTR has been reported as a sensitive diagnostic marker of choroid plexus tumors.

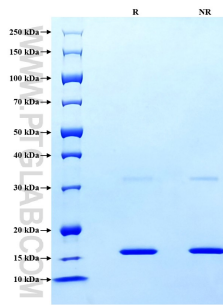
References

1. Iwasaki, T. et al. (2011) *Neuropathology*. 31(6):632-8.
2. Sousa, J.C. et al. (2006) *Neurobiol Aging*. 28(5):713-8.
3. Mizuguchi, M. et al. (2024) *Struct Fold Des*. 32(12):2181-2182.
4. Angueira, A. et al. (2024) *JAMA CARDIOL*. 2024-12-04

Synonyms

Prealbumin, Prealbumin/transthyretin, transthyretin, TTR, ATTR

Selected Validation Data



Purity of Recombinant Human Prealbumin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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