

Catalog Number: Eg31642

## Basic Information

**Species:**  
human

**Purity:**  
>90 %, SDS-PAGE

**GeneID:**  
5950

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<1.0 EU/ μg protein, LAL method

**Source:**

**Predicted Molecular Mass:**

**SDS-PAGE:**

**Formulation:**

Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

## 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

RBP4 (retinol-binding protein 4) belongs to the lipocalin family and is the specific carrier for retinol (Vitamin A) in the blood. It is mainly synthesized in the liver and circulates in the bloodstream bound to retinol in a complex with transthyretin. RBP4 acts as a drug target for ophthalmology research and reduction in serum RBP4 level inhibits lipofuscin without inhibiting the visual cycle. Urinary RBP4 could act as a marker for glomerular disease. And RBP4 also was identified as an adipokine that elevated in some insulin-resistant states. Measurement of serum RBP4 could be used to assess the risk of insulin resistance, type 2 diabetes, obesity, and cardiovascular disease.

## References

1. P A Peterson. et al. (1971). J Biol Chem. 246(1): 44-9.
2. Yang Q. et al. (2005). Nature. 436(7049): 356-62.
3. Frey SK. et al. (2008). Lipids Health Dis. 7(29).
4. Christopher L Cioffi. et al. (2014). J Med Chem. 57(18): 7731-57.

## Synonyms

Plasma retinol binding protein, RBP, RBP4

---

## Selected Validation Data

---

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

**T: 027-87531629**

**E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)**

**W: [ptgc.com](http://ptgc.com)**

---

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**