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### **Retinol Binding Protein-4 Human Recombinant GROWTH FACTOR**

**Catalog Number:** PRP-535  
**Quantity:** 5 micrograms, 20 micrograms, 1 milligram  
**Format:** Sterile Filtered colorless solution  
**Host:** *Escherichia Coli*

#### **Background:**

Retinol binding protein 4(RBP4) belongs to the lipocalin family and is the specific carrier for retinol (vitamin A alcohol) in the blood. This protein was found to be expressed and secreted by adipose tissue, and was strongly associated with insulin resistance. It delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin which prevents its loss by filtration through the kidney glomeruli.

RBP4 delivers retinol from the liver to the peripheral tissues. In plasma, the rbp-retinol complex interacts with transthyretin, this prevents its loss by filtration through the kidney glomeruli.

#### **Specificity and Preparation:**

RBP-4 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 184 amino acids and having a molecular mass of 21 kDa. The Retinol Binding Protein-4 is purified by proprietary chromatographic techniques. Formulation is 1 mg/ml in PBS pH-7.4. Purity is greater than 95.0% as determined by RP-HPLC and SDS-PAGE.

Amino acid sequence: MERDCRVSSF RVKENFDKAR FSGTWYAMAK KDPEGLFLQD NIVAEFSVDE  
TGQMSATAKGRVLLNNWDV CADMVGTFD TEDPAKFKMK YWGVASFLQK GNDDHWIVDT  
DYDTYAVQYS CRLNLDGTC ADSYSFVFSR DPNGLPPEAQ KIVRQRQEEL CLARQYRLIV  
HNGYCDGRSE RNLL.

#### **Usage and Storage:**

Liquid RBP4 although stable at 10°C for 1 week, should be stored below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.