



Retinol Binding Protein-4, His Tag, human recombinant (rHuRBP-4-His)

Catalog No: 97211
Lot No: XXXXX
Source: *E. coli*
Synonyms: Retinol Binding Protein 4 plasma, RBP-4, RBP4, Plasma retinol-binding protein, PRBP, RBP

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.

Description

RBP-4 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 183 amino acids (19-201) corresponding to the mature Retinol Binding protein, having a total molecular mass of 25.57 kDa. RBP-4 is fused with a 4.5 kDa N-terminal hexahistidine tag and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered clear solution.

Formulation

The RBP4 protein solution is supplied in 10 mM Tris, 50 mM NaCl, 1 mM EDTA and 50% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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