



## Retinol Binding Protein-7, His Tag, human recombinant (rHuRBP7-His)

**Catalog No:** 97565  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Retinoid-binding protein 7, Cellular retinoic acid-binding protein 4, CRABP4, CRBP4, Cellular retinoic acid-binding protein IV, CRABP-IV, RBP7, MGC70641

### Background

RBP7 is a member of a superfamily of small cytoplasmic proteins which interact with hydrophobic ligands. RBP7 is cytoplasmic protein which, like CRBP I and CRBP II, forms 7-barrel structures and participates in the intracellular transport of retinol. RBP7 is a newly identified cellular retinol carrier, which is expressed in the kidney, heart and transverse colon in humans.

### Description

RBP-7 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 154 amino acids (1-134) and having a molecular mass of 17.6 kDa. RBP7 is fused with a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered colorless solution.

### Formulation

The RBP7 solution (0.5 mg/ml) contains 20 mM Tris-HCl buffer (pH8.0), 0.2 M NaCl, 2 mM DTT and 20% glycerol.

### Stability

RBP7 should be stored desiccated 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.

### Purity

Greater than 90.0% as determined by SDS-PAGE.

### Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MPADLSGTWT LLSSDNFEGY MLALGIDFAT RKIAKLLKPQ KVIEQNGDSF TIHTNSSLRN  
YFVKFKVGEE FDEDNRGLDN RKCKSLVIWD NDRLTCIQKG EKKNRGWTHW IEGDKLHLEM FCEGQVCKQT FQRA

### Usage

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