RBP4 Protein, Human (HEK293, hFc)

Cat. No.:	HY-P72031
Synonyms:	Plasma retinol-binding protein; PRBP; RBP;
Species:	Human
Source:	HEK293
Accession:	P02753 (E19-L201)
Gene ID:	5950
Molecular Weight:	Approximately 50 kDa

PROPERTIES

AA Sequence	E R D C R V S S F R V K E N F D K A R F S G T W Y A M A K K D P E G L F L Q D N I V A E F S V D E T G Q M S A T A K G R V R L L N N W D V C A D M V G T F T D T E D P A K F K M K Y W G V A S F L Q K G N D D H W I V D T D Y D T Y A V Q Y S C R L L N L D G T C A D S Y S F V F S R D P N G L P P E A Q K I V R Q R Q E E L C L A R Q Y R L I V H N G Y C D G R S E R N L L
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized RBP4 at 5 μg/mL can bind TTR , the EC_{50} is 849.5-2912 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	The RBP4 protein serves as a retinol-binding protein, playing a crucial role in mediating the transport of retinol in blood plasma. It is implicated in delivering retinol from liver stores to peripheral tissues, and it likely transfers the bound all-trans retinol to STRA6, facilitating retinol transport across the cell membrane. RBP4 engages in interactions with TTR, a relationship that helps prevent its loss through filtration in the kidney glomeruli. Furthermore, the protein directly interacts with STRA6, reinforcing its involvement in the intricate processes of retinol transport and distribution in the body.

Caution: Product has not been fully validated for medical applications. For research use only.

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