

## RBP1 Protein, Human

<b>Cat. No.:</b>	HY-P71093
<b>Synonyms:</b>	Retinol-binding protein 1; Cellular retinol-binding protein; CRBP; Cellular retinol-binding protein I; CRBP-I; RBP1; CRBP1
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P09455 (P2-Q135)
<b>Gene ID:</b>	5947
<b>Molecular Weight:</b>	Approximately 14.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>P V D F T G Y W K M      L V N E N F E E Y L      R A L D V N V A L R      K I A N L L K P D K</p> <p>E I V Q D G D H M I      I R T L S T F R N Y      I M D F Q V G K E F      E E D L T G I D D R</p> <p>K C M T T V S W D G      D K L Q C V Q K G E      K E G R G W T Q W I      E G D E L H L E M R</p> <p>V E G V V C K Q V F      K K V Q</p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>Retinol-Binding Protein 1 (RBP1) is a cytoplasmic protein involved in retinoid homeostasis, acting as a key player in the uptake and storage of retinol. RBP1 functions by accepting retinol from the transport protein STRA6. In its retinol-free apoprotein state, RBP1 interacts with STRA6, facilitating the transfer of retinol and contributing to the regulation of cellular retinoid levels. These interactions and functions highlight the crucial role of RBP1 in maintaining retinoid homeostasis and underscore its significance in cellular processes associated with retinoid metabolism.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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