RBP1 Protein, Human

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

PROPERTIES

AA Sequence	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 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 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 V E G V V C K Q V F K K V Q
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, 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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	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 retinol homeostasis and underscore its significance in cellular processes associated with retinoid metabolism.

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

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