

RBP7 Protein, Human (His)

Cat. No.:	HY-P71251A
Synonyms:	Retinoid-binding protein 7; Cellular retinoic acid-binding protein 4; CRABP4; CRBP4; Cellular retinoic acid-binding protein IV; CRABP-IV; RBP7
Species:	Human
Source:	E. coli
Accession:	NP_443192.1 (P2-A134)
Gene ID:	116362
Molecular Weight:	Approximately 16 kDa

PROPERTIES

AA Sequence	PADLSGTWTL LSSDNFEGYM LALGIDFATR KIAKLLKPQK VIEQNGDSFT IHTNSSLRNY FVKFKVGEFF DEDNRGLDNR KCKSLVIWDN DRLTCIQKGE KKNRGWTHWI EGDKLHLEMF CEGQVCKQTF QRA
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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	The RBP7 protein, belonging to the cellular retinol-binding protein (CRBP) family, plays a crucial role in the stability and metabolism of vitamin A. It exhibits a binding affinity for all-trans-retinol and shares structural similarities with other CRBPs, although its binding affinity for retinol is comparatively lower. Besides its general functions, this protein shows biased expression in fat (RPKM 138.2), spleen (RPKM 25.4), and seven other tissues, suggesting potential tissue-specific roles.
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Caution: Product has not been fully validated for medical applications. For research use only.

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