

CRABP2 Protein, Mouse (His)

Cat. No.:	HY-P75689
Synonyms:	Cellular retinoic acid-binding protein 2; CRABP-II; CRABP2
Species:	Mouse
Source:	E. coli
Accession:	P22935 (P2-E138)
Gene ID:	12904
Molecular Weight:	Approximately 16 kDa

PROPERTIES

AA Sequence	<p> P N F S G N W K I I R S E N F E E M L K A L G V N M M M R K I A V A A A S K P A V E I K Q E N D T F Y I K T S T T V R T T E I N F K I G E E F E E Q T V D G R P C K S L V K W E S G N K M V C E Q R L L K G E G P K T S W S R E L T N D G E L I L T M T A D D V V C T R V Y V R E </p>
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.
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	<p>CRABP2, a critical cellular mediator, plays a pivotal role in the intracellular transport of retinoic acid, facilitating its transit to the nucleus and regulating its access to nuclear retinoic acid receptors. This transport mechanism is central to the intricate cellular processes governed by retinoic acid. Additionally, CRABP2 engages in essential interactions within the cellular milieu, forming complexes with importin alpha, which contribute to its regulatory functions (By similarity). Furthermore, CRABP2 establishes crucial molecular associations with retinoid X receptor (RXR) and retinoic acid receptor alpha (RARA), highlighting its involvement in the intricate network of nuclear receptor signaling pathways. These interactions collectively underscore CRABP2's pivotal role in orchestrating retinoic acid dynamics and its downstream regulatory effects.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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