

RBP4 Protein, Canine (HEK293, His)

Cat. No.:	HY-P76001
Synonyms:	Plasma retinol-binding protein; PRBP; RBP
Species:	Canine
Source:	HEK293
Accession:	XP_038295882 (E19-L201)
Gene ID:	477775
Molecular Weight:	Approximately 23 kDa

PROPERTIES

AA Sequence	<pre> E S D C R V S N F Q V K K N F D K A R F A 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 N G R 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 I 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 L 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 P N T L </pre>
Biological Activity	Measured by its ability to bind all-trans retinoic acid. The binding of retinoic acid results in the quenching of Trp fluorescence in RBP4. The 50% binding concentration (ED ₅₀) is 2.771 μM, as measured under the described conditions.
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	RBP4 Protein is a member of the lipocalin family and the major transport protein of the hydrophobic molecule retinol, also known as vitamin A, in the circulation. RBP4 enables retinol binding and retinol transmembrane transporter activity. RBP4 is involved in retinol transport and located in extracellular space ^{[1][2][3]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA