

Active Recombinant Human RBP4 Protein (Glu19-Leu201), C-6xHis tagged

Cat. No. RBP4-354H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human RBP4 Protein (Glu19-Leu201) with a C-terminal Ile and 6-His tag was expressed in Mouse myeloma cell line.
Species	Human
Source	NS0
ProteinLength	Glu19-Leu201
Description	This protein belongs to the lipocalin family and is the specific carrier for retinol (vitamin A alcohol) in the blood. It delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin which prevents its loss by filtration through the kidney glomeruli. A deficiency of vitamin A blocks secretion of the binding protein posttranslationally and results in defective delivery and supply to the epidermal cells.
Bio-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. >1.0 µM all-trans retinoic acid is bound under the described conditions.
Molecular Mass	Predicted Molecular Mass: 22 kDa SDS-PAGE: 22 kDa, reducing conditions
N-terminal Sequence	Glu19

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Analysis	
Endotoxin	<1.0 EU/μg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in Tris and NaCl.
Reconstitution	Reconstitute at 500 μg/mL in sterile 50 mM Tris, 10 mM CaCl ₂ and 150 mM NaCl, pH 7.5.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	RBP4 retinol binding protein 4, plasma [Homo sapiens (human)]
Official Symbol	RBP4
Synonyms	RBP4; retinol binding protein 4, plasma; retinol-binding protein 4; RBP; PRBP; plasma retinol-binding protein; retinol-binding protein 4, interstitial
Gene ID	5950
mRNA Refseq	NM_006744

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Protein Refseq NP_006735

MIM 180250

UniProt ID P02753

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