

Recombinant Human retinaldehyde binding protein 1, His-tagged

Cat. No. RLBP1-425H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RLBP1, 1-317aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-317 a.a.
Description	RLBP1 is a 36-kD water-soluble protein which carries 11-cis-retinaldehyde or 11-cis-retinal as physiologic ligands. It may be a functional component of the visual cycle. Mutations of this gene have been associated with severe rod-cone dystrophy, Bothnia dystrophy (nonsyndromic autosomal recessive retinitis pigmentosa) and retinitis punctata albescens. Recombinant human RLBP1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
Molecular Mass	38.9kDa (340aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSEGVGT FRMPVEEEQE LRAQLEQLTT KDHGPVFGPC SQLPRHTLQK AKDELNEREE TREEAVRELQ EMVQAQAASG EELAVAVAER VQEKDSGFFL RFIRARKFNV GRAYELLRGY VNFRLQYPEL FDSLSPFAVR CTIEAGYPGV LSSRDYGRV VMLFNIENWQ SQEITFDEIL QAYCFILEKL LENEETQING FCIENFKGF TMQQAASLRT SDLRKMVDML

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QDSFPAKFKA IHFIHQPWYF TTTYNVVKPF LKSKLLERVF VHGDDLSGFY
QEIDENILPS DFGGTLPKYD GKAVAEQLFG PQAQAENTAF

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [RLBP1 retinaldehyde binding protein 1 \[Homo sapiens \]](#)

Official Symbol RLBP1

Synonyms RLBP1; retinaldehyde binding protein 1; retinaldehyde-binding protein 1; CRALBP; cellular retinaldehyde-binding protein; cellular retinaldehyde-binding protein-1; MGC3663;

Gene ID [6017](#)

mRNA Refseq [NM_000326](#)

Protein Refseq [NP_000317](#)

MIM [180090](#)

UniProt ID [P12271](#)

Chromosome Location 15q26.1

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Pathway

Vitamin A and carotenoid metabolism, organism-specific biosystem; the visual cycle, conserved biosystem; the visual cycle, organism-specific biosystem;

Function

11-cis retinal binding; binding; retinol binding; transporter activity;

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