

Recombinant Human retinaldehyde binding protein 1, His-tagged

RLBP1-425H Human

Lot. No. (See product label)

Specification

Product Overview	RLBP1, 1-317aa, Human, His tag, E.coli
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.
Source	E.coli
Species	Human
Tag	His-tag
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 FRMVPEEEQE LRAQLEQLTT KDHGPVFGPC SQLPRHTLQK AKDELNEREE TREEAVRELQ EMVQAQAASG EELAVAVAER VQEKDSGFFL RFIRARKFNV GRAYELLRGY VNFRLQYPEL FDSLSPAVR CTIEAGYPGV LSSRDKYGRV VMLFNINWQ SQEITFDEIL QAYCFLEKL LENEETQING FCIENFKGF TMQQAASLRT SDLRKMVDML QDSFPAFKA IHFIHQPWYF TTTYNVVKPF LKSKLLERVF VHGDLSGFY 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

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Protein Refseq [NP_000317](#)

MIM [180090](#)

UniProt ID [P12271](#)

**Chromosome
Location** 15q26.1

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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