

Recombinant Human RLBP1, His-tagged

Cat. No. RLBP1-5026H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RLBP1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	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.
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 KDHGPFVFGPC SQLPRHTLQK AKDELNEREE TREEAVRELQ EMVQAQAASG EELAVAVAER VQEKDSGFFL RFIRARKFNV GRAYELLRGY VNFRLQYPEL FDSLSPAVR CTIEAGYPGV LSSRDYGRV VMLFNIENWQ SQEITFDEIL QAYCFLEKL LENEETQING FCIIENFKGF TMQQAASLRT SDLRKMVDML QDSFPAKFKA IHFIHQPWYF TTTYNVVKPF LSKLLERVF VHGGDL SGFY QEIDENILPS DFGGTL PKYD GKAVAEQLFG PQAQAENTAF

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Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. 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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