

Recombinant human RLBP1 protein

Catalog Number: ATGP3410

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-317aa

UniProt No.

P12271

NCBI Accession No.

NP_000317.1

Alternative Names

Retinaldehyde binding protein 1, RLBP1, CRALBP, Cellular retinaldehyde binding protein like, CRALBPL, FLJ37248, Retinaldehyde binding protein 1 like 1, RLBP1L1

PRODUCT SPECIFICATION

Molecular Weight

37.5 kDa (326aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

RLBP1, as known as retinaldehyde binding protein 1, is a soluble protein. It participates in the regeneration of active 11-cis-retinol and 11-cis-retinaldehyde, from the inactive 11-trans products of the rhodopsin photocycle and in the de novo synthesis of these retinoids from 11-trans metabolic precursors. The cycling of retinoids

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between photoreceptor and adjacent pigment epithelium cells is known as the 'visual cycle'. Recombinant human RLBP1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

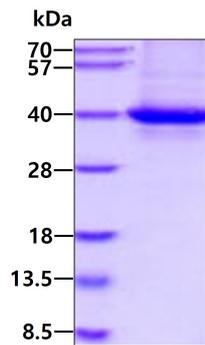
<ADP>MSEGVGT FRMVPEEEQE LRAQLEQLTT KDHGPFVFGPC SQLPRHTLQK AKDELNEREE TREEAVRELQ
EMVQAQAASG EELAVAVAER VQEKDSGFFL RFIRARKFNV GRAYELLRGY VNFRLQYPEL FDSLSPAVR CTIEAGYPGV
LSSRDKYGRV VMLFNINWQ SQEITFDEIL QAYCFLEKL LENEETQING FCIENFKGF TMOQAASLRT SDLRKMVDML
QDSFPAFKA IHFIHQPWYF TTTYNVVKPF LKSKLLERVF VHGDLSGFY QEIDENILPS DFGGTLPKYD GKAVAEQLFG
PQAQAENTAF <HHHHHH>

General References

Neutzner RV., et al. (2011) Ophthalmologie 108:1045-1049.
Intres R., et al. (1994) J. Biol. Chem. 269:25411-25418.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.