
Product Data Sheet

Product Name: RLBP1 Human
 Cat. No.: GP24393
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Retinaldehyde Binding Protein 1; Cellular Retinaldehyde-Binding Protein; CRALBP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSEGVGT FRMVPEEEQE LRAQLEQLTT KDHGPVFGPC SQLPRHTLQK AKDELNEREE TREEAVRELQ EMVQAQAASG EELAVAVAER VQEKDSGFFL RFIRARKFNV GRAYELLRGY VNFRLQYPEL FDSLSPAVR CTIEAGYPGV LSSRDKYGRV VMLFNINWQ SQEITFDEIL QAYCFILEKL LENEETQING FCIENFKGF TMQQAASLRT SDLRKMVDML QDSFPAFKA IHFIHQPWYF TTTYNVVKPF LKSKLLERVF VHGD DLSGFY QEIDENILPS DFGGTLPKYD GKAVAEQLFG PQAQAENTAF		
Formulation	The RLBP1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

RLBP1 is a 36-kD water-soluble protein that transports 11-cis-retinal or 11-cis-retinaldehyde as physiologic ligands. RLBP1 is a functional element of the visual cycle. RLBP1 gene mutations cause retinitis punctata albescens, severe rod-cone dystrophy and Bothnia dystrophy (nonsyndromic autosomal recessive retinitis pigmentosa).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

RLBP1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 340 amino acids (1-317) and having a molecular mass of 38.9 kDa.

Caution: Product has not been fully validated for medical applications. For research use only.

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RLBP1 is fused to a 23 amino acid His-tag at N-terminus.

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