
Product Data Sheet

Product Name: RPE Human
 Cat. No.: GP22230
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ribulose-phosphate 3-epimerase; Ribulose-5-phosphate-3-epimerase; RPE; HUSSY-17; RPE2-1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHTMASGCK IGPSILNSDL ANLGAECLRM LDSGADYLHL DVMDGHFVPN ITFGHPVVES LRKQLGQDPF FDMHMMVSKP EQWVKPMAVA GANQYTFHLE ATENPGALIK DIRENGMKVG LAIKPGTSVE YLAPWANQID MALVMTVEPG FGGQKFMEDM MPKVHWRRTQ FPSLDIEVDG VGVPDTHKCAEAGANMIVS GSAIMRSEDP RSVINLLRNV CSEAAQKRSL DR.		
Formulation	The RPE solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 30% glycerol and 200mM NaCl.		

Introduction

Ribulose-phosphate 3-epimerase (RPE) is a member of the ribulose-phosphate 3-epimerase family. RPE is the enzyme which converts D-ribulose 5-phosphate into D-xylulose 5-phosphate in Calvin's reductive pentose phosphate cycle. Therefore, the RPE enzyme has one substrate, D-ribulose 5-phosphate, and one product, D-xylulose 5-phosphate. RPE participates in three metabolic pathways: pentose phosphate pathway, pentose and glucuronate interconversions, and carbon fixation.

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

RPE Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide

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

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chain containing 252 amino acids (1-228) and having a molecular mass of 27.5kDa. RPE is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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