
Product Data Sheet

Product Name: DERA
 Cat. No.: GP21553
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Putative deoxyribose-phosphate aldolase; DERA; 2-deoxy-D-ribose 5-phosphate aldolase; Phosphodeoxyriboaldolase; Deoxyriboaldolase; DERA; CGI-26.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MTDLKASSLR ALKLMDLTTL NDDDTDEKVI ALCHQAKTPV GNTAAICIYP RFIPIARKTL KEQGTPEIRI ATVTNFPHGN DDIDIALAET RAAIAYGADE VDVVFPYRAL MAGNEQVGF LVKACKEACA AANVLLKVII ETGELKDEAL IRKASEISIK AGADFIKTST GKVAVNATPE SARIMMEVIR DMGVEKTVGF KPAGGVRTAE DAQKYLAID ELFGADWADA RHYRFGASSL LASLLKALGH GDGKSASSY.		
Formulation	The DERA solution (1mg/ml) 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 2mM DTT.		

Introduction

Deoxyribose-phosphate aldolase (DERA) is a member of the deoC/fbaB aldolase protein family involved in the carbohydrate degradation pathway. DERA catalyzes the conversion of 2-deoxy-D-ribose 5-phosphate to D-glyceraldehyde 3-phosphate and an acetyldehyde.

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

DERA produced in E.Coli is a single, non-glycosylated polypeptide chain containing 279

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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amino acids (1-259 a.a.) and having a molecular mass of 29.9kDa. DERA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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