

## DERA Human

**Description:**DERA Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 338 amino acids (1-318) and having a molecular mass of 37.3 kDa. DERA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:**ENPS-177

For research use only.

**Synonyms:**Putative deoxyribose-phosphate aldolase, DERA, 2-deoxy-D-ribose 5-phosphate aldolase, Phosphodeoxyriboaldolase, Deoxyriboaldolase, DERA, CGI-26.

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHH SSGLVPRGSH MSAHNRGTEL DLSWISKIQV  
NHPAVLRRAE QIQARRTVKK EWQAALLKA VTFIDLTTLS GDDTSSNIQR LCYKAKYPIR  
EDLLKALNMH DKGITTAAVC VYPARVCDV KALKAAGCNI PVASVAAGFP AGQTHLKTRL  
EEIRLAVEDG ATEIDVVINR SLVLTGQWEA LYDEIRQFRK ACGEAHLKTI LATGELGTLT  
NVYKASMIAM MA

**Purity:**Greater than 85% as determined by SDS-PAGE.

### Formulation:

The DERA solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT and 20% glycerol.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### 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 acetylaldehyde.

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