

# Recombinant human DERA protein

Catalog Number: ATGP1196

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-318aa

### UniProt No.

Q9Y315

### NCBI Accession No.

NP\_057038

### Alternative Names

Putative deoxyribose-phosphate aldolase, CGI-26, DEOC

## PRODUCT SPECIFICATION

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### Molecular Weight

37.3 kDa (338aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

### Purity

> 90% by SDS-PAGE

### 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

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### Description

DERA, also known as deoxyribose-phosphate aldolase, belongs to the deoC/fbaB aldolase protein family involved in the carbohydrate degradation pathway. This protein catalyzes the conversion of 2-deoxy-D-ribose 5-phosphate to D-glyceraldehyde 3-phosphate and an acetylaldehyde. Recombinant human DERA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

### Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MSAHNRGTEL DLSWISKIQV NHPAVLRRAE QIQARRTVKK EWQAAWLLKA

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VTFIDLTTLS GDDTSSNIQR LCYKAKYPIR EDLLKALNMH DKGITTAAVC VYPARVCDV KALKAAGCNI PVASVAAGFP  
AGQTHLKTRL EEIRLAVEDG ATEIDVVINR SLVLTGQWEA LYDEIRQFRK ACGEAHLKTI LATGELGTLT NVYKASMIAM  
MAGSDFIKTS TGKETVNATF PVAIVMLRAI RDFFWKTGNK IGFKPAGGIR SAKDSLAWLS LVKEELGDEW LKPELFRIGA  
STLLSDIERQ IYHHVTGRYA AYHDLPM

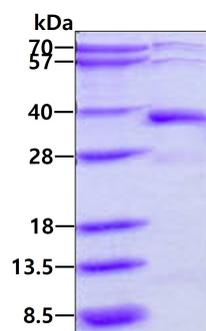
### General References

Heine, A. et al. (2004) J. Mol. Biol. 343:1019-34.

Sakuraba, H. et al. (2003) J. Biol. Chem. 278:10799-806

## DATA

### SDS-PAGE



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