

## Recombinant Human DERA, His-tagged

**Cat. No.** DERA-1018H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human DERA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography (1-318aa).                                                                                                                                          |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                         |
| <b>Source</b>                   | Human                                                                                                                                                                                                                                                                                         |
| <b>Description</b>              | 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 acetyldehyde.             |
| <b>Form</b>                     | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT                                                                                                                                                                                                              |
| <b>Molecular Weight</b>         | 37.3 kDa (338aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                      |
| <b>Purity</b>                   | > 90% by SDS - PAGE                                                                                                                                                                                                                                                                           |
| <b>Concentration</b>            | 0.5 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                      |
| <b>Sequences of amino acids</b> | MGSSHHHHHH SSGLVPRGSH MSAHNRGTEL DLSWISKIQV NHPAVLRRAE<br>QIQARRTVKK EWQAAWLLKA VTFIDLTTLT GDDTSSNIQR LCYKAKYPIR<br>EDLLKALNMH DKGITTAAVC VYPARVCDV KALKAAGCNI PVASVAAGFP<br>AGQTHLKTRL EEIRLAVEDG ATEIDVVINR SLVLTGQWEA LYDEIRQFRK<br>ACGEAHLKTI LATGELGTLT NVYKASMIAM MAGSDFIKTS TGKETVNAIF |

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PVAIVMLRAI RDFFWKTGNK IGFKPAGGIR SAKDSLAWLS LVKEELGDEW  
LKPELFRIGA STLLSDIERQ IYHHVTGRYA AYHDLPMs

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Pathways**

Pentose phosphate pathway

## GENE INFORMATION

**Gene Name**

DERA deoxyribose-phosphate aldolase (putative) [ Homo sapiens ]

**Official Symbol**

DERA

**Synonyms**

DERA; DEOC; CGI-26; deoxyribose-phosphate aldolase (putative); putative deoxyribose-phosphate aldolase; deoxyriboaldolase; OTTHUMP00000230114; OTTHUMP00000230117; OTTHUMP00000230119; OTTHUMP00000230121; phosphodeoxyriboaldolase; 2-deoxy-D-ribose 5-phosphate aldolase; 2-deoxyribose-5-phosphate aldolase homolog; EC 4.1.2.4; 2-deoxyribose-5-phosphate aldolase homolog (C. elegans)

**Gene ID**

51071

**mRNA Refseq**

NM\_015954

**Protein Refseq**

NP\_057038

**UniProt ID**

Q9Y315

**Chromosome  
Location**

12p12.3

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**Function**

deoxyribose-phosphate aldolase activity; lyase activity; protein binding

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