

Recombinant Human DERA, His-tagged

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

SPECIFICATION

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