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Recombinant human DERA protein

Catalog Number: ATGP1196

PRODUCT INFORMATION

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

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

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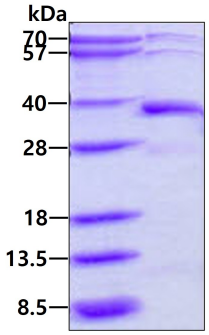
VTFIDLTTLS GDDTSSNIQR LCYKAKYPIR EDLLKALNMH DKGITTAAVC VYPARVCDAV KALKAAGCNI PVASVAAGFP AGQTHLKTRL EEIRLAVEDG ATEIDVVINR SLVLTGQWEA LYDEIRQFRK ACGEAHLKTI LATGELGTLT NVYKASMIAM MAGSDFIKTS TGKETVNATF PVAIVMLRAI RDFFWKTGNK IGFKPAGGIR SAKDSLAWLS LVKEELGDEW LKPELFRIGA STLLSDIERQ IYHHVTGRYA AYHDLPMS

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.