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Recombinant e.coli deoC protein

Catalog Number: ATGP1021

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-259aa

UniProt No.
P0A6L0

NCBI Accession No.
NP_418798

Alternative Names
Deoxyribose-phosphate aldolase, dra, ECK4373, JW4344, thyR, DERA

PRODUCT SPECIFICATION

Molecular Weight
29.9 kDa (279aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT

Purity
> 95% 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
DeoC is a member of the deoC/fbaB aldolase protein family. The systematic name of this enzyme class is 2-deoxyribose-5-phosphate aldolase, which cleave carbon-carbon bonds. This protein is Involved in the carbohydrate degradation pathway, catalyzes the conversion of 2-deoxy-D-ribose 5-phosphate to D-glyceraldehyde 3-phosphate and an acetyldehyde. Recombinant E. coli deoC protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

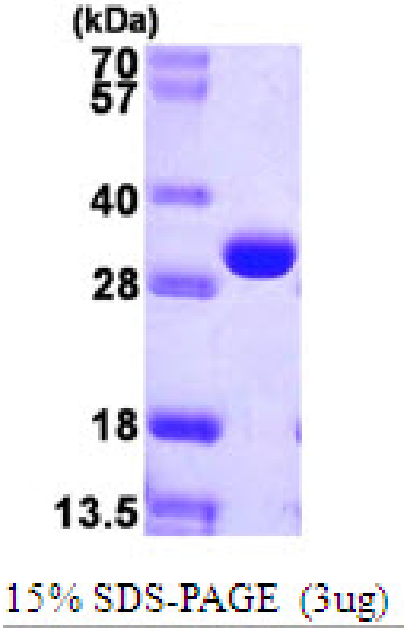
MGSSHHHHHH SSGLVPRGSH MTDLKASSLR ALKLMDLTTL NDDDTDEKVI ALCHQAKTPV GNTAAICIYP RFIPIARKTL KEQGTPEIRI ATVTNFPHGN DDIDIALAET RAAIAYGADE VDVVFPYRAL MAGNEQVGFD LVKACKEACA AANVLLKVII ETGELKDEAL IRKASEISIK AGADFIKTST GKVAVNATPE SARIMMEVIR DMGVEKTVGF KPAGGVRTAE DAQKYLAIAD ELFGADWADA RHYRFGASSL LASLLKALGH GDGKSASSY

General References

Sgarrella F., et al. (1997) Comp Biochem Physiol B Biochem Mol Biol. 117(2):253-7.
Horinouchi N., et al. (2006) Biosci Biotechnol Biochem. 70(6):1371-8.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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