

# Recombinant human DHPS protein

Catalog Number: ATGP0500

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-369aa

### UniProt No.

P49366

### NCBI Accession No.

NP\_001921.1

### Alternative Names

Deoxyhypusine synthase, MIG13, Deoxyhypusine synthase DHS, DS, Migration inducing gene 13.

## PRODUCT SPECIFICATION

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### Molecular Weight

43.1 kDa (389aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

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

### 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

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### Description

DHPS, which belongs to the deoxyhypusine synthase family of proteins, is important for the first step in the hypusine biosynthesis pathway. This protein catalyzes the NAD-dependent transfer of the butylamine moiety of spermidine to the epsilon-amino group of a specific lysine residue of the EIF5A precursor protein to form the intermediate deoxyhypusine residue. Recombinant DHPS protein was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

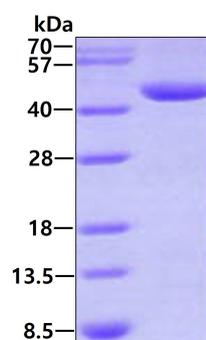
<MGSSHHHHH SSGLVPRGSH> MEGSLEREAP AGALAAVLKH SSTLPPESTQ VRGYDFNRGV NYRALLEAFG  
TTGFQATNFG RAVQQVNAMI EKKLEPLSQD EDQHADLTQS RRPLTSCTIF LGYTSNLISS GIRETIRYLV QHNMVDVLVT  
TAGGVEEDLI KCLAPTYLGE FSLRGKELRE NGINRIGNLL VPENYCKFE DWLMPILDQM VMEQNTEGVK WTPSKMIARL  
GKEINNPEV YWVAQKNHIP VFSPALTDGS LGDMIFFHSY KNPGLVLDIV EDLRLINTQA IFAKCTGMII LGGGVVKHHI  
ANANLMRNGA DYAVYINTAQ EFDGSDSGAR PDEAVSWGKI RVDAQPVKVY ADASLVFPLL VAETFAQKMD AFMHEKNED

## General References

umland TC, et al. (2004) J. Biol. Chem. 279 (27): 28697-705  
Jones T, et al. (1996) Genomics. 35 (3): 635-7.

## DATA

### SDS-PAGE



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