

# Recombinant Human Deoxyhypusine Synthase, His-tagged

Cat. No. DHPS-568H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human DHPS protein was expressed in <i>E.coli</i> with His tag and purified by conventional chromatography techniques. MW=43.1 kDa (389aa).
<b>Species</b>	Human
<b>Source</b>	<i>E.coli</i>
<b>Description</b>	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.
<b>Sequences</b>	<p>MGSSHHHHHH SSGLVPRGSH MEGSLEREAP AGALAAVLKH SSTLPPESTQ  VRGYDFNRGV NYRALLEAFG TTGFQATNFG RAVQQVNAMI EKKLEPLSQD  EDQHADLTQS RRPLTSCTIF LGYTSNLISS GIRETIRYLV QHNMVDLVT  TAGGVEEDLI KCLAPTYLGE FSLRGKELRE NGINRIGNLL VPENYCKFE  DWLMPILDQM VMEQNTEGVK WTPSKMIARL GKEINNPESV YYWAQKNHIP  VFSPALTDGS LGDMIFFHSY KNPGLVLDIV EDLRLINTQA IFAKCTGMII  LGGGVVKHHI ANANLMRNGA DYAVYINTAQ EFDGSDSGAR PDEAVSWGKI  RVDAQPVKVY ADASLVFPLL VAETFAQKMD AFMHEKNED.</p>
<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl.
<b>Purity</b>	> 95% by SDS – PAGE.

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**Concentration** 1.0 mg/ml (determined by Bradford assay).

**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.

## GENE INFORMATION

**Gene Name** DHPS deoxyhypusine synthase [ Homo sapiens ]

**Synonyms** DHPS; deoxyhypusine synthase; MIG13; migration-inducing gene 13; DHS; EC 2.5.1.46

**Gene ID** 1725

**mRNA Refseq** NM\_001930

**Protein Refseq** NP\_001921

**MIM** 600944

**UniProt ID** P49366

**Chromosome Location** 19p13.2-p13.1

**Pathway** Metabolism of proteins

**Function** deoxyhypusine synthase activity; protein binding; transferase activity

**PDB rendering based on 1dhs.**

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