

Recombinant Human Deoxyhypusine Synthase, His-tagged

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	E.coli
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.
Sequences	MGSSHHHHHH SSGLVPRGSH MEGSLEREAP AGALAAVLKH SSTLPPESTQ VRGYDFNRGV NYRALLEAFG TTGFQATNFG RAVQQVNAMI EKKLEPLSQD EDQHADLTQS RRPLTSCTIF LGYTSNLISS GIRETIRYLV QHNMVDVLVT TAGGVEEDLI KCLAPTYLGE FSLRGKELRE NGINRIGNLL VPNENYCKFE DWLMPILDQM VMEQNTEGVK WTPSKMIARL GKEINNPEVS YYWAQKNHIP VFSPALTDGS LGDMIFFHSY KNPGLVLDIV EDLRLINTQA IFAKCTGMII LGGGVVKHHI ANANLMRNGA DYAVYINTAQ EFDGSDSGAR PDEAVSWGKI RVDAQPVKVY ADASLVFPLL VAETFAQKMD AFMHEKNED.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl.
Purity	> 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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