Recombinant Human DHPS, His-tagged

Cat. No. DHPS-26684TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human DHPS with a N terminal His tag. 389 amino acids with a predicted MWt 43.1 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	369 amino acids
Description	This gene encodes a protein that is required for the formation of hypusine, a unique amino acid formed by the posttranslational modification of only one protein, eukaryotic translation initiation factor 5A. The encoded protein catalyzes the first step in hypusine formation by transferring the butylamine moiety of spermidine to a specific lysine residue of the eukaryotic translation initiation factor 5A precursor, forming an intermediate deoxyhypusine residue. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Conjugation	HIS
Molecular Weight	43.100kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 0.58% Sodium chloride, 20% Glycerol
Storage	Please see Notes section
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MEGSLEREAP AGALAAVLKH SSTLPPESTQ VRGYDFNRGV NYRALLEAFG TTGFQATNFG RAVQQVNAMI EKKLEPLSQD EDQHADLTQS RRPLTSCTIF LGYTSNLISS GIRETIRYLV QHNMVDVLVT TAGGVEEDLI KCLAPTYLGE FSLRGKELRE NGINRIGNLL VPNENYCKFE DWLMPILDQM VMEQNTEGVK WTPSKMIARL GKEINNPESV YYWAQKNHIP VFSPALTDGS LGDMIFFHSY KNPGLVLDIV EDLRLINTQA IFAKCTGMII LGGGVVKHHI ANANLMRNGA DYAVYINTAQ EFDGSDSGAR PDEAVSWGKI RVDAQPVKVY ADASLVFPLL VAETFAQKMD AFMHEKNED
Sequence Similarities	Belongs to the deoxyhypusine synthase family.

GENE INFORMATION

Gene Name	DHPS deoxyhypusine synthase [Homo sapiens]
Official Symbol	DHPS
Synonyms	DHPS; deoxyhypusine synthase; MIG13; migration inducing gene 13;
Gene ID	1725
mRNA Refseq	NM_001206974
Protein Refseq	NP_001193903
MIM	600944

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Uniprot ID	P49366
Chromosome Location	19p13.2
Pathway	Hypusine synthesis from eIF5A-lysine, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Post-translational modification: gamma carboxylation and hypusine formation, organism-specific biosystem; Post-translational protein modification, organism-specific biosystem; hypusine biosynthesis, conserved biosystem;
Function	deoxyhypusine synthase activity; protein binding; transferase activity;

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