



# Recombinant Human Diphthine synthase (DPH5)

<b>Product Code</b>	CSB-EP862001HU-B
<b>Abbreviation</b>	DPH5
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9H2P9
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MLYLIGLGLG DAKDITVKGL EVVRRCSR VY LEAYTSVLT V GKEALEEFY G RKLVVADREE VEQEADNILK DADISDVAFL VVGDPFGATT HSDLVLRATK LGIPYRVIHN ASIMNAVGCC GLQLYKFGET VSIVFWTDTW RPESFFDKVK KNRQNGMHTL CLLDIKVKEQ SLENLIKGRK IYEP RYMSV NQAAQQLLEI VQNQRIRGEE PAVTEETLCV GLARVGADDQ KIAAGTLRQM CTVDLGEPLH SLIITGGSIH PMEMEMLSLF SIPENSSESQ SINGL
<b>Source</b>	E.coli
<b>Target Names</b>	DPH5
<b>Protein Names</b>	Recommended name: Diphthine synthase EC= 2.1.1.98 Alternative name(s): Diphthamide biosynthesis methyltransferase
<b>Expression Region</b>	1-285
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	This gene encodes a component of the diphthamide synthesis pathway. Diphthamide is a post-translationally modified histidine residue found only on translation elongation factor 2. It is conserved from archaeobacteria to humans, and is targeted by diphtheria toxin and Pseudomonas exotoxin A to halt cellular protein synthesis. The yeast and Chinese hamster homologs of this protein catalyze the trimethylation of the histidine residue on elongation factor 2, resulting in a diphthine moiety that is subsequently amidated to yield diphthamide. Multiple transcript variants encoding different isoforms have been found for this gene.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final



concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

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