Recombinant Bovine Diphthine synthase (DPH5)

Product Code	CSB-MP682688BO
Abbreviation	DPH5
Storage	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.
Uniprot No.	Q5E982
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	>85% (SDS-PAGE)
Sequence	MLYMIGLGLG DAKDITVKGL EVVRRCSRVY LETYTSVLTV GKEVLEEFYE RKLILADREE VEQEADNILK DADISDVAFL VVGDPFGATT HSDLILRATK LGIPYRVIHN ASIMNAVGCC GLQLYKFGET VSIVFWTDTW RPESFFDKVK KNRQNGMHTL CLLDIKVKEQ SLENLIKGRK IYEPPRYMSV NQAAQQLLEI VQNQRIRGEE PAVTEETLCV GLARVGAEDQ KIAAGTLQQM STVDLGGPLH SLIITGGSLH PLEMEMLSLF TIPENSSEAQ SIGGL
Source	Mammalian cell
Target Names	DPH5
Protein Names	Recommended name: Diphthine synthase EC= 2.1.1.98 Alternative name(s): Diphthamide biosynthesis methyltransferase
Expression Region	1-285
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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 archaebacteria 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.
Reconstitution	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	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.