

Recombinant Human DPH5 cell lysate

Cat. No. DPH5-507HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	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.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	DPH5 DPH5 homolog (<i>S. cerevisiae</i>) [<i>Homo sapiens</i>]
Official Symbol	DPH5

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Synonyms	DPH5; DPH5 homolog (S. cerevisiae); diphthine synthase; CGI 30; protein x 0011; diphthamide biosynthesis methyltransferase; AD-018; CGI-30; NPD015; HSPC143; MGC61450;
Gene ID	51611
mRNA Refseq	NM_001077394
Protein Refseq	NP_001070862
MIM	611075
UniProt ID	Q9H2P9
Chromosome Location	1p21.2
Pathway	diphthamide biosynthesis, organism-specific biosystem;
Function	diphthine synthase activity; diphthine synthase activity; methyltransferase activity; transferase activity;