DPH2 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	DPH2, Lysate
Full Product Name	Human DPH2 Protein Lysate
Product Gene Name	DPH2 lysate
Product Synonym Names	DPH2; DPH2L2; DPH2L2
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	53.1kDa (497aa) 50-70kDa (SDS-PAGE under reducing conditions)
OMIM	AF053003 mRNA
3D Structure	ModBase 3D Structure for Q9BQC3
Related Product Information for DPH2 lysate	Human DPH2 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of DPH2 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DPH2 purchase	MBS8410693 is a lysate targeting DPH2. Also known as Human DPH2 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPH2. It may not necessarily be applicable to this product.

NCBI GI #	21536476
NCBI GeneID	1802
NCBI Accession #	NP_001375
UniProt Primary Accession #	Q9BQC3
UniProt Secondary Accession #	O60623; A8MVC9; B2RDE3; B4DNI8
UniProt Related Accession #	Q9BQC3
GenBank Nucleotide #	NM_001384
NCBI Official Full Name	2-(3-amino-3-carboxypropyl)histidine synthase subunit 2 isoform a
NCBI Official Synonym Full Names	DPH2 homolog
NCBI Official Symbol	DPH2
NCBI Official Synonym Symbols	DPH2L2
UniProt Protein Name	2-(3-amino-3-carboxypropyl)histidine synthase subunit 2

UniProt Synonym Protein Names	Diphthamide biosynthesis protein 2; Diphtheria toxin resistance protein 2Curated; S-adenosyl-L-methionine:L-histidine 3-amino-3-carboxypropyltransferase 2Curated
Protein Family	2-(3-amino-3-carboxypropyl)histidine synthase
UniProt Gene Name	DPH2
UniProt Synonym Gene Names	DPH2L2
NCBI Protein Information	2-(3-amino-3-carboxypropyl)histidine synthase subunit 2; diphthamide biosynthesis protein 2
NCBI Summary for DPH2	This gene is one of two human genes similar to the yeast gene dph2. The yeast gene was identified by its ability to complement a diphthamide mutant strain, and thus probably functions in diphthamide biosynthesis. Diphthamide is a post-translationally modified histidine residue present in elongation factor 2 (EF2) that is the target of diphtheria toxin ADP-ribosylation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2016]
UniProt Comments for DPH2	Required for the first step in the synthesis of diphthamide, a post-translational modification of histidine which occurs in translation elongation factor 2 (EEF2).
Research Articles on DPH2	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
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