
Product Data Sheet

Product Name: DPH2 Human
 Cat. No.: GP23333
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms DPH2 Homolog; S-Adenosyl-L-Methionine:L-Histidine 3-Amino-3-Carboxypropyltransferase 2; Diphtheria Toxin Resistance Protein 2; Diphthamide Biosynthesis Protein 2; DPH2L2; Diphtheria Toxin Resistance Protein Required For Diphthamide Biosynthesis-Like 2; 2-(3-Amino-3-Carboxypropyl)Histidine Synthase Subunit 2; Diphthamide Biosynthesis Protein 2 Homolog-Like 2; Diphthamide Biosynthesis-Like Protein 2; EC 2.5.1.108; DPH2-Like 2; DPH2.

Amino Acid Sequence

MESMFSSPAE AALQRETGVP GLLTPLPDL GYELERVAG FVRDLGCERV
 ALQFPDQLLG DAVAVARLE ETTGSKMFIL GDTAYGCCV DVLGAEQAGA
 QALIHFGPAC LSPPARPLPV AFVLRQRSVA LELCVKAFEQ QNPDPKAPVV
 LLSEPACAHA LEALATLLRP RYLDLLVSSP AFPQPVGSLP PEPMLERFG
 RRFPLAPGRR LEEYGAFYVG GSKASDPDL DPDLRLLLW WAPGQPFSSC
 CPDTGKTQDE GARAGRLRAR RRYLVERARD ARVWGLLAGT LGVAQHREAL
 AHLRNLTQAA GKRSYVLALG RPTPAKLANF PEVDVFNLLA CPLGALAPQL
 SGSFFQPILA PCELEAACNP AWPPPGLAPH LTHYADLLPG SPFHVALPPP
 ESELWETPDV SLITGDLRPP PAWKSSNDHG SLALTTPRPQL ELAESSPAAS
 FLSSRSWQGL EPRLGQTPVT EAVSGRRGIA IAYEDEGSL EHHHHHHH.

Formulation DPH2 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4), 1mM DTT and 20% glycerol.

Introduction

Diphthamide biosynthesis protein 2 (DPH2) is a homodimer and each of its monomers can bind a [4Fe-4S] cluster. DPH2 is the target of ADP ribosylating diphtheria toxin (DT) and Pseudomonas exotoxin A (PE). DPH2 was identified by its ability to complement a diphthamide mutant strain, and thus serves in diphthamide biosynthesis. The loss of

Caution: Product has not been fully validated for medical applications. For research use only.

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DPH2 pre-activates NF-kB and death receptor pathways and renders MCF7 cells hypersensitive to tumor necrosis factor.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

DPH2 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 497 amino acids (1-489a.a.) and having a molecular mass of 53.1kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). DPH2 is expressed with an 8 amino acids His tag at C-Terminus and purified by proprietary chromatographic techniques.

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