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DPH2 Human

Diphthamide Biosynthesis 2 Human Recombinant
RCP0676

Product Overview

Name	DPH2 Human
Description	
Diphthamide Biosynthesis 2 Human Recombinant	
Accession (Primary)	Q9BQC3
Synonyms	
DPH2 Homolog, S-Adenosyl-L-Methionine:L-Histidine 3-Amino-3-Carboxypropyltransferase 2, Diphtheria Toxin Resistance Protein 2, Diphthamide Biosynthesis Protein 2, DPH2L2, Diptheria 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.	
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 DPH2 pre-activates NF-kB and death receptor pathways and renders MCF7 cells hypersensitive to tumor necrosis factor.	
Source	
Sf9, Baculovirus cells.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
DPH2 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4), 1mM DTT and 20% glycerol.	
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.	
Purity	
Greater than 85.0% as determined by SDS-PAGE.	
Amino acid sequence	
MESMFSSPAE AALQRETGVP GLLTPLPDLD GVYELERVAG FVRDLGCERV ALQFPDQLLG DAVAVAARLE	

ETTGSKMFIL GDTAYGSCCV DVLGAEQAGA QALIHFGPAC LSPPARPLPV AFVLRQRSVA LELCVKAFEA QNPDPKAPVV LLSEPACAHA LEALATLLRP RYLDLLVSSP AFPQPVGSLS PEPMPLERFG RRFPLAPGRR LEEYGAFYVG GSKASPDPDL DPDLSRLLLG WAPGQPFSSC CPDTGKTQDE GARAGRLRAR RRYLVERARD ARVVGLLAGT LGVAQHREAL AHLRNLTQAA GKRSYVLALG RPTPAKLANF PEVDVFVLLA CPLGALAPQL SGSFFQPILA PCELEAACNP AWPPPGLAPH LTHYADLLPG SPFHVALPPP ESELWETPDV SLITGDLRPP PAWKSSNDHG SLALTPRPQL ELAESSPAAS FLSSRSWQGL EPRLGQTPVT EAVSGRRGIA IAYEDEGSG L EHHHHHH .

Precautions

DPH2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9BQC3)