

## 32-13198: DPH2 Human

### Alternative Name :

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.

### Description

Source: Sf9, Baculovirus cells.

Sterile filtered colorless solution.

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- $\kappa$ B and death receptor pathways and renders MCF7 cells hypersensitive to tumor necrosis factor.<sup>Å</sup>

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.

### Product Info

**Amount :** 1  $\mu$ g / 5  $\mu$ g

**Purification :** Greater than 85.0% as determined by SDS-PAGE.

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

**Storage condition :** 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.

**Amino Acid :** MESMFSSPAE AALQRETGVP GLLTLPDL GYELERVAG FVRDLGCERV ALQFPDQLLG DAVAVAARLE ETTGSKMFIL GDTAYGSCCV DVLGAEQAGA QALIHFGPAC LSPPARPLPV AFVLRQRSVA LELCVKAFFA QNPDPKAPVV LLSEPACAAH LEALATLLRP RYLDLLVSSP AFPQPVGSLS PEPMLERFG RRFPLAPGRR LEEYGAFYVG GSKASPPDL DPDLRLLG WAPGQPFSSC CPDTGKTQDE GARAGRLRAR RRYLVERARD ARVVGLLAGT LGVAQHREAL AHLRNLQAA GKRSYVLALG RPTPAKLANF PEVDVFVLLA CPLGALAPQL SGSFFQPILA PCELEAACNP AWPPPGLAPH LTHYADLLPG SPFHVALPPP ESELWETPDV SLITGDLRPP PAWKSSNDHG SLALTPRPQL ELAESSPAAS FLSSRSWQGL EPRLGQTPVT EAVSGRRGIA IAYEDEGSGL EHHHHHH.