

**DPH2, 1-489aa, Human, His-tag, Baculovirus**

**Cat.NO.: TP01915**

3th Edition

**Synonyms:**Diphthamide biosynthesis protein 2, DPH2, DPH2L2

**Description:**DPH2, also known as diphthamide biosynthesis protein 2, is a homodimer and each of its monomers can bind a [4Fe-4S] cluster. It is the target of ADP ribosylating diphtheria toxin (DT) and Pseudomonas exotoxin A (PE). It was identified by its ability to complement a diphthamide mutant strain, and thus functions in diphthamide biosynthesis. Its loss pre-activates NF- $\kappa$ B and death receptor pathways and renders MCF7 cells hypersensitive to tumor necrosis factor. Recombinant human DPH2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:**Liquid. In Phosphate Buffered Saline (pH 7.4) containing 1mM DTT, 20% glycerol.

**Molecular Weight:**53.1kDa (497aa), 50-70kDa (SDS-PAGE under reducing conditions)

**Sequences:**

MESMFSSPAEALQRETGVPGLLTLPDLGVEYELERVAGFVRDLGCERVALQFPDQLLGDAVAVAAARLEETTGS  
KMFILGDTAYGCCVDVLGAEQAGAQAQALIHFGPACLSPPARPLPVAFVLRQRSVALELCVKAFAEQNPDPKAPVLL  
SEPACAHALEALATLLRPRYLDLLVSSPAFPQPVGSLSEPMPLERFGRRFPLAPGRRLEEYGAFFVGGSKASDP  
DLDPDLSRLLLGWAPGQPFSSCCPDGTGKTQDEGARAGRLRARRRYLVERARDARVVGLLAGTLGVAQHQREALAH  
LRNLTQAAGKRSYVLALGRPTPAKLANFPEVDVFVLLACPLGALAPQLSGSFFQPILAPCELEAACNPAWPPPGLAP  
HLTHYADLLPGSPFHVLPPESELWETPDVSLITGDLRPPPAWKSSNDHGSLALTPRPQLELAESSPAASFLSSRS  
WQGLEPRLGQTPVTEAVSGRRGIAIAYEDEGSGLEHHHHHH

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.