

Product information

DPH2, 1-489aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3582

Full name: Diphthamide biosynthesis protein 2

NCBI Accession No.: NP_001375

Synonyms: 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- κ 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.

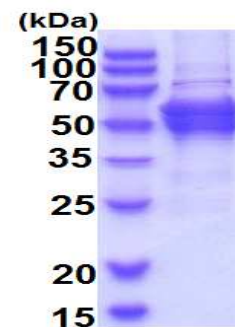
Molecular Weight: 53.1kDa (497aa)
50-70kDa (SDS-PAGE under reducing conditions)

Predicted N terminal: Met1

Purity: > 85% by SDS - PAGE.

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

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



15% SDS-PAGE (3 μ g)

Sequences of amino acids:

MESMFSSPAE AALQRETGVP GLLTLPDLD GYELERVAG FVRDLGCERV ALQFPDQLLG DAVAVAARLE ETTGSKMFI L GDTAYGSCCV
DVLGAEQAGA QAL IHFGPAC LSPPARPLPV AFVLRQRSVA LELCVKAFE A QNPDPKAPVV LLSEPAHAHA LEALATLLRP RYLDLLVSSP
AFPQPVGSL S PEPMLERFG RRFPLAPGRR LEEYGAFYVG GSKASPDPL DPDLRLLLG WAPGQPFSSC CPDTGKTQDE GARAGRLRAR
RRYLVERARD ARVVGLLAGT LGVAQHREAL AHLRNL TQAA GKRSYVLALG RPTPAKLANF PEVDVFVLLA CPLGALAPQL SGFFQPI LA
PCELEAACNP AWPPPGLAPH LTHYADLLPG SPFHVALPPP ESELWETPDV SLITGDLRPP PAWKSSNDHG SLALTTPRQL ELAESSPAAS
FLSSRSWQGL EPRLGQTPVT EAVSGRRGIA IAYEDEGSL EHHHHH

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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Product information

General references:

Zhang Y., *et al.* (2010) *Nature*. 465:891-896.

Mattheakis LC., *et al.* (1993) *Gene*. 132:149-154.

Stahl S., *et al.* (2015) *Proc Natl Acad Sci U S A*. 112:10732-10737.

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.

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