

Recombinant human DPH2 protein

Catalog Number: ATGP3582

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-489aa

UniProt No.

Q9BQC3

NCBI Accession No.

NP_001375

Alternative Names

Diphthamide biosynthesis protein 2, DPH2, DPH2L2

PRODUCT SPECIFICATION

Molecular Weight

53.1 kDa (497aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 1mM DTT, 20% glycerol

Purity

> 85% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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-kB and death receptor pathways and renders MCF7 cells hypersensitive to

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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.

Amino acid Sequence

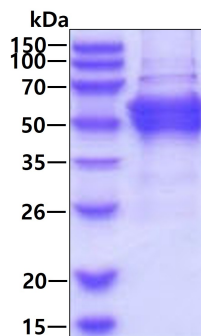
MESMFSSPAE AALQRETGVP GLLTPLPDL D GYELERVAG FVRDLGCERV ALQFPDQLLG DAVAVAARLE ETTGSKMFIL
GDTAYGSCCV DVLGAEQAGA QALIHFGPAC LSPPARPLPV AFVLRQRSVA LELCVKAFEA QNPDPKAPVV LLSEPACAHA
LEALATLLRP RYLDLLVSSP AFPQPVGSLS PEPMLERFG RRFPLAPGRR LEEYGAFYVG GSKASPDPL DPDLRLLLG
WAPGQPFSSC CPDTGKTQDE GARAGRLRAR RRYLVERARD ARVVGLLAGT LGVAQHREAL AHLRNLTQAA GKRSYVLALG
RPTPAKLANF PEVDVFNLLA CPLGALAPQL SGSFFQPILA PCELEAACNP AWPPPGLAPH LTHYADLLPG SPFHVALPPP
ESELWETPDV SLITGDLRPP PAWKSSNDHG SLALTPRPQL ELAESSPAAS FLSSRSWQGL EPRLGQTPVT EAVSGRRGIA
IAYEDEGSG<L EHHHHHH>

General References

Zhang Y., et al. (2010) Nature. 465:891-896.
Mattheakis LC., et al. (1993) Gene. 132:149-154.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.