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

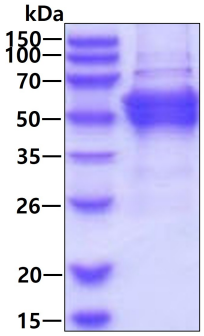
MESMFSSPAE AALQRETGVP GLLTPLPDLD GVYELERVAG FVRDLGCERV ALQFPDQLLG DAVAVAARLE ETTGSKMFIL GDTAYGSCCV DVLGAEQAGA QALIHFGPAC LSPPARPLPV AFVLRQRSVA LELCVKAFEA QNPDPKAPVV LLSEPACAHA LEALATLLRP RYLDLLVSSP AFPQPVGSLS PEPMPLERFG RRFPLAPGRR LEEYGAFYVG GSKASPDPDL DPDLSRLLLG WAPGQPFSSC CPDTGKTQDE GARAGRLRAR RRYLVERARD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

General References

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

DATA

SDS-PAGE



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