Transcription factor PIF3 (PIF3), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP01348*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Transcription factor PIF3 (PIF3) , partial

Product Gene Name
PIF3 recombinant protein

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence
MPLFELFRLT KAKLESAQDR NPSPPVDEVV ELVWENGQIS TQSQSSRSRN IPPPQANSSR AREIGNGSKT TMVDEIPMSV PSLMTGLSQD DDFVPWLNHH PSLDGYCSDF LRDVSSPVTV NEQESDMAVN QTAFPLFQRR KDGNESAPAA SSSQYNGFQS HSLYGSDRAR DLPSQQTNPD RFTQTQEPLI TSNKPSLVNF SHFLRPATFA KTTNNNLHDT KEKSPQSPPN VFQTRVLGAK DSEDKVLNES VASATPKDNQ KACLISEDSC RKDQESEKAV VCSSVGSGNS LDGPSESPSL SLKRKHSNIQ DIDCHSEDVE EESGDGRKEA GPSRTGLGSK RSRSAEVHNL SERRRRDRIN EKMRALQELI PNCNKVDKAS MLDEAIEYLK SLQLQVQIMS MASGYYLPPA VMFPPGMGHY PAAAAAMAMG MGMPYAMGLP DLSRGGSSVN HGPQFQVSGM QQQPVAMGIP RVSGGGIFAG SSTIGNGSTR DLSGSKDQTT TNNNSNLKPI KRKQGSSDQF CGSS

Sequence Positions
1-524. Full Length

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
56,990 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Transcription factor

NCBI Accession
NP_001318964.1

NCBI GI
1063681957

NCBI GenBank Nucleotide
NM_001331836.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

Transcription factor PIF3 (PIF3), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP01348*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

NCBI GeneID
837479

NCBI Official Full Name
phytochrome interacting factor 3

NCBI Official Symbol
PIF3

NCBI Official Synonym Symbols
F14J9.19; F14J9_19; PAP3; PHOTOCURRENT 1; phytochrome interacting factor 3; PHYTOCHROME INTERACTING FACTOR 3; PHYTOCHROME-ASSOCIATED PROTEIN 3; POC1; purple acid phosphatase 3

NCBI Protein Information
phytochrome interacting factor 3

NCBI Summary
Transcription factor interacting with photoreceptors phyA and phyB. Forms a ternary complex in vitro with G-box element of the promoters of LHY, CCA1. Acts as a negative regulator of phyB signalling. It degrades rapidly after irradiation of dark grown seedlings in a process controlled by phytochromes. Does not play a significant role in controlling light input and function of the circadian clockwork. Binds to G- and E-boxes, but not to other ACEs. Binds to anthocyanin biosynthetic genes in a light- and HY5-independent fashion. PIF3 function as a transcriptional activator can be functionally and mechanistically separated from its role in repression of PhyB mediated processes.

UniProt Gene Name
PIF3

UniProt Synonym Gene Names
BHLH8; EN100; PAP3; AtbHLH8; bHLH 8

UniProt Protein Name
Transcription factor PIF3

UniProt Synonym Protein Names
Basic helix-loop-helix protein 8; AtbHLH8; bHLH 8; Phytochrome-associated protein 3; Phytochrome-interacting factor 3; Transcription factor EN 100; bHLH transcription factor bHLH008

UniProt Primary Accession
O80536

UniProt Secondary Accession
A5Y7A2; A5Y7A3; A5Y7A4; A5Y7A5; A5Y7A6; A5Y7A7; A5Y7A8; A5Y7A9; A5Y7B0; A5Y7B1; A5Y7B2

UniProt Related Accession
O80536

UniProt Comments
Transcription factor acting positively in the phytochrome signaling pathway. Activates transcription by binding to the G box (5'-CACGTG-3').

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/