

Phosphate transporter PHO1 homolog 4 (PHO1-H4), Recombinant Protein

Cat *RP08656*

Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Phosphate transporter PHO1 homolog 4 (PHO1-H4)

Product Gene Name

PHO1-H4 recombinant protein

Purity

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

Sequence

MRFGKEFVSQ MPEWQEAYI DYAYLKILQ DIQASRNRSD SNNQSSTPSF ARNLTRRYNR DALVSENHDI
VVNTVTRLEE GLETAAYETT FLKAGEAGGD FEVTFRTLD REFNVNNFY RLKVETARTE ALALNKQMDA
LIAFRHKVMD QNQNPSVFD SVSEDINGSA SEVGSSSKCT EHNVALADLM RNEDTSNESI LERIRMNKTR
EITPLSAIKT ILKVHKQDEL KFTRDNLKEV EKRLQVAFIE FYQKLRLKN YSFLNASAVS KIMKKYDKIA
KRNAAKLYME MVDKSFLSSS EEVHKLLKV ESIFIEHFSN SNRREGMSHL RPKINKERHL ITFSTGFFFG
CGISLIVALG LIHARNIMG TPGQRTYMET MFPLYRFFGF VVLHMDVYAA NIYFWRRYRV NYSFIFGFKQ
GTELGYRHVL LLSFGLGTL LCAVLLNLD EMDAQTKDYR LVTELIPLFL LVLVIVLC PFNILYRSSR
FFFLSVLFR IAPFYAVHL PDFFLGDLT SQVQALRSLE FYICYGFGD FRYRRRTCT SNIGFRTFYF
IVAVIPYWLRLQ CIRRMVE DRDL SHGYNG IKYLLTIVAA SLRTAYTLNR GSNWNITAWV FSGVATFYGT
YWDIVLDWGL LQRGCKNSFL RDKLLVPHKT VYYAAMVLNV LLRLVWLQTV LDLKFSFLHR ETMVALMACL
EIIRRGWNF FRLNEHLNN VGRYRAFKTV PLPFNYEEDG DHHNN

Sequence Positions

1-745aa; full length protein

Format

Liquid containing glycerol

Host

Cell Free Expression

Molecular Weight

86,986 Da

Storage

Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Protein Family

Phosphate transporter

NCBI Accession

NP_194265.2

NCBI GI

42567142

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GenBank Nucleotide

NM_118667.2

NCBI GeneID

828638

NCBI Official Full Name

protein SHORT HYPOCOTYL UNDER BLUE1

NCBI Official Symbol

SHB1

NCBI Official Synonym Symbols

SHORT HYPOCOTYL UNDER BLUE1; T30C3.10; T30C3_10

NCBI Protein Information

protein SHORT HYPOCOTYL UNDER BLUE1

NCBI Summary

SHB1 encodes a nuclear and cytosolic protein that has motifs homologous with SYG1 protein family members. Acts in cryptochrome signaling. Overexpression of SHB1 enhanced the expression of PHYTOCHROME-INTERACTING FACTOR4 (PIF4) under red light and promoted proteasome-mediated degradation of phytochrome A and hypocotyl elongation under far-red light. A knockout allele suppressed LONG HYPOCOTYL IN FAR-RED LIGHT1 (HFR1) expression and showed several deetiolation phenotypes. Acts upstream of HFR1. Regulates seed development.

UniProt Gene Name

PHO1-H4

UniProt Synonym Gene Names

AtPHO1;H4

UniProt Protein Name

Phosphate transporter PHO1 homolog 4

UniProt Synonym Protein Names

Protein PHO1 homolog 4; AtPHO1;H4

UniProt Entry Name

PHO14_ARATH

UniProt Primary Accession

Q6R8G6

UniProt Secondary Accession

Q9STK3

UniProt Related Accession

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UniProt Comments

May transport inorganic phosphate (Pi).

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