

Phototropin-1B (PHOT1B), Recombinant Protein

Cat *RP13439*

Size 0.5 mg (*E-Coli*)/ 0.05 mg (*Baculovirus*)/ 0.5 mg (*Yeast*)/ 0.05 mg
(*Mammalian-Cell*)/ 1 mg (*E-Coli*)/ 0.1 mg (*Baculovirus*)/ 1 mg
(*Yeast*)/ 0.1 mg (*Mammalian-Cell*)

Species

Oryza sativa subsp. *japonica* (Rice)

Full Product Name

Recombinant *Oryza sativa* subsp. *japonica* Phototropin-1B (PHOT1B), partial

Product Gene Name

PHOT1B recombinant protein

Product Synonym Gene Name

PHOT1B

Purity

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

Format

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

Host

E Coli or *Yeast* or *Baculovirus* or *Mammalian Cell*

Molecular Weight

103,437 Da

Storage

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

Protein Family

Phototropin

NCBI Accession

XP_015617473.1

NCBI GI

1002308156

NCBI GenBank Nucleotide

XM_015761987.1

NCBI GeneID

4349531

NCBI Official Full Name

phototropin-1B

NCBI Official Symbol

LOC4349531

NCBI Official Synonym Symbols

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI Protein Information

phototropin-1B

UniProt Gene Name

PHOT1B

UniProt Protein Name

Phototropin-1B

UniProt Primary Accession

Q2RBR1

UniProt Secondary Accession

A0A0P0XXT5

UniProt Related Accession

Q2RBR1

UniProt Comments

Protein kinase that acts as a blue light photoreceptor in a signal-transduction pathway for phototropic responses. Regulates a wide range of physiological activities in plants that maximize the efficiency of photosynthesis, such as chloroplast relocations, stomata opening, and leaf expansion .

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