

Phytochrome A (PHYA), Recombinant Protein

Cat *RP18488*

Species

Glycine max (Soybean) (Glycine hispida)

Full Product Name

Recombinant Glycine max Phytochrome A (PHYA), partial

Product Gene Name

PHYA recombinant protein

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

125,734 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

Phytochrome

NCBI Accession

NP_001238286.1

NCBI GI

351722971

NCBI GenBank Nucleotide

NM_001251357.1

NCBI GeneID

547810

NCBI Official Full Name

phytochrome A

NCBI Official Symbol

PHYA

NCBI Official Synonym Symbols

PhyA1; GmphyA1

NCBI Protein Information

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Phytochrome A (PHYA), Recombinant Protein

Cat *RP18488*

phytochrome A

UniProt Gene Name

PHYA

UniProt Protein Name

Phytochrome A

UniProt Primary Accession

P42500

UniProt Related Accession

P42500

UniProt Comments

Regulatory photoreceptor which exists in two forms that are reversibly interconvertible by light: the Pr form that absorbs maximally in the red region of the spectrum and the Pfr form that absorbs maximally in the far-red region. Photoconversion of Pr to Pfr induces an array of morphogenic responses, whereas reversion of Pfr to Pr cancels the induction of those responses. Pfr controls the expression of a number of nuclear genes including those encoding the small subunit of ribulose-bisphosphate carboxylase, chlorophyll A/B binding protein, protochlorophyllide reductase, rRNA, etc. It also controls the expression of its own gene(s) in a negative feedback fashion.

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