

Alpha-glucan water dikinase, chloroplastic (R1), Recombinant Protein

Cat *RP15278*

Species

Solanum tuberosum (Potato)

Full Product Name

Recombinant Solanum tuberosum Alpha-glucan water dikinase, chloroplastic (R1), partial

Product Gene Name

R1 recombinant protein

Product Synonym Gene Name

R1

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

163,237 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

Alpha-glucan water dikinase

NCBI Accession

Q9AWA5.2

NCBI GI

57012986

NCBI Official Full Name

Alpha-glucan water dikinase, chloroplastic

UniProt Gene Name

R1

UniProt Protein Name

Alpha-glucan water dikinase, chloroplastic

UniProt Synonym Protein Names

Starch-related R1 protein

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Alpha-glucan water dikinase, chloroplastic (R1), Recombinant Protein

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UniProt Primary Accession

Q9AWA5

UniProt Secondary Accession

O82061

UniProt Comments

Mediates the incorporation of phosphate into starch-like alpha-glucan, mostly at the C-6 position of glucose units. Acts as an overall regulator of starch mobilization. Required for starch degradation, suggesting that the phosphate content of starch regulates its degradability. More active on alpha-1,6 branched amylopectin.

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