

Delta-1-pyrroline-5-carboxylate synthase (P5CS), partial, Recombinant Protein

Cat *RP11271*

Species

Oryza sativa subsp. *japonica* (Rice)

Full Product Name

Recombinant *Oryza sativa* subsp. *japonica* Delta-1-pyrroline-5-carboxylate synthase (P5CS), partial

Product Synonym Names

Delta-1-pyrroline-5-carboxylate synthase; P5CS; Including the following 2 domains:: Glutamate 5-kinase; GK; EC=2.7.2.11; Gamma-glutamyl kinase; Gamma-glutamyl phosphate reductase; GPR; EC=1.2.1.41; Glutamate-5-semialdehyde dehydrogenase; Glutamyl-gamma-se

Product Gene Name

P5CS recombinant protein

Product Synonym Gene Name

P5CS; Os05g0455500; LOC_Os05g38150; OJ1651_D06.9

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

77,745 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

Delta-1-pyrroline-5-carboxylate synthase

NCBI Accession

NP_001055723.1

NCBI GI

115464247

NCBI GenBank Nucleotide

NM_001062258.1

NCBI GeneID

4338979

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Delta-1-pyrroline-5-carboxylate synthase (P5CS), partial, Recombinant Protein

Cat *RP11271*

NCBI Official Full Name

Os05g0455500

NCBI Official Symbol

Os05g0455500

NCBI Protein Information

Os05g0455500; hypothetical protein

UniProt Gene Name

P5CS

UniProt Synonym Gene Names

P5CS; GK; GPR

UniProt Protein Name

Delta-1-pyrroline-5-carboxylate synthase

UniProt Synonym Protein Names

Gamma-glutamyl kinase

UniProt Entry Name

P5CS_ORYSJ

UniProt Primary Accession

O04226

UniProt Secondary Accession

Q60EM4; Q6PW76

UniProt Related Accession

O04226

UniProt Comments

P5CS plays a key role in proline biosynthesis, leading to osmoregulation in plants.

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