

Phosphoenolpyruvate carboxylase 4 (PPC4), Recombinant Protein

Cat RP01038

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Phosphoenolpyruvate carboxylase 4 (PPC4) , partial

Product Gene Name

PPC4 recombinant protein

Product Synonym Gene Name

PPC4

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

116,586 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

Phosphoenolpyruvate carboxylase

NCBI Accession

NP_177043.2

NCBI GI

30697740

NCBI GenBank Nucleotide

NM_105548.5

NCBI GeneID

843206

NCBI Official Full Name

phosphoenolpyruvate carboxylase 4

NCBI Official Symbol

PPC4

NCBI Official Synonym Symbols

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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ATPPC4; F14K14.14; F14K14_14; phosphoenolpyruvate carboxylase 4

NCBI Protein Information

phosphoenolpyruvate carboxylase 4

NCBI Summary

Encodes one of four Arabidopsis phosphoenolpyruvate (PEP) carboxylase proteins. But, it is more similar to bacterial PEP carboxylase than plant PEP carboxylase. Efforts to express this enzyme and to demonstrate its enzymatic activity in E.coli failed.

UniProt Gene Name

PPC4

UniProt Synonym Gene Names

AtPPC4; PEPC 4; PEPCase 4

UniProt Protein Name

Phosphoenolpyruvate carboxylase 4

UniProt Primary Accession

Q8GVE8

UniProt Secondary Accession

Q9CA39; Q9SX35

UniProt Related Accession

Q8GVE8

UniProt Comments

Through the carboxylation of phosphoenolpyruvate (PEP) it forms oxaloacetate, a four-carbon dicarboxylic acid source for the tricarboxylic acid cycle.

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