

Phosphoenolpyruvate carboxylase, Microorganism

Cat. No.:	HY-E70015	
CAS No.:	9067-77-0	
Target:	Others	
Pathway:	Others	Phosphoenolpyruvate carboxylase
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY

Description

Phosphoenolpyruvate carboxylase, Microorganism (PEPC) is a carbon dioxide fixing enzyme that in an irreversible manner and in the presence of Mg^{2+} , converts phosphoenolpyruvate and bicarbonate into oxaloacetate and inorganic phosphorus. Phosphoenolpyruvate carboxylase catalyses the primary assimilation of CO_2 in Crassulacean acid metabolism plants. Phosphoenolpyruvate carboxylase plays a major role in setting the day-night pattern of metabolism in plants^{[1][2]}.

REFERENCES

- [1]. Durall C, et, al. Oligomerization and characteristics of phosphoenolpyruvate carboxylase in *Synechococcus* PCC 7002. *Sci Rep.* 2020 Feb 27;10(1):3607.
- [2]. Nimmo HG. The regulation of phosphoenolpyruvate carboxylase in CAM plants. *Trends Plant Sci.* 2000 Feb;5(2):75-80.

Caution: Product has not been fully validated for medical applications. For research use only.

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