

Pyruvate carboxylase

Cat. No.:	HY-P2989
CAS No.:	9014-19-1
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

Pyruvate carboxylase

BIOLOGICAL ACTIVITY

Description

Pyruvate carboxylase is a biotin-containing enzyme that catalyzes the HCO_3^- and MgATP dependent carboxylation of pyruvate to form oxaloacetate. Pyruvate carboxylase plays an essential role in controlling whole-body energetics through regulation of gluconeogenesis in the liver, synthesis of fatty acids in adipocytes, and insulin secretion in pancreatic β cells^[1] [2].

REFERENCES

[1]. Jitrapakdee S, et al. Structure, mechanism and regulation of pyruvate carboxylase. *Biochem J.* 2008 Aug 1;413(3):369-87.

[2]. Kiesel VA, et al. Pyruvate carboxylase and cancer progression. *Cancer Metab.* 2021 Apr 30;9(1):20.

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

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